See also in "Register"

Notes on flowers from Sierra valley. and vicinity. communicated. Jan. 28. 1876. by J. G. Lemmon Sierra Val. Cal.

(In 2 packages.)

№ 1066 Com. Reported once as "R. repens?" but fruit was asked for.
" 1067. Sierra val. Sent before but in too ~~ripe~~ dry a stage,
" 1068 Pluto's gate bet. Reno & Carson on lava rocks. of a narrow, windy gorge.
" 1069 Butterfly valley
" 1070 High ridge near Reno. Nev.
" 1071 Gray's valley between warm-spring val. & Pyramid lake Abundant on sandy granite 2.06 ft
" 1072 Volcanic scoria shore of Pyramid (This and the above reported "new"?
1073 High ridge near Reno Nev. associated with No. 1070.
1074 Sierra val. not abundant,
1075 " " & Webber lake val.
1076 Indian, Big-meadows; & American val. Plumas Co.
1077 Sierra val. flowering all summer,
1078 " " & Webber val.
1079 Lassen's peak, " " peak. Nev. Co.
1080 Floor of Sierra val. sparse
1081 Webber lake val. near Castle Peak.
1082 Caseana valley. near Lassen's peak. Plumas Co.
1083 Webber lake val. " Castle " Nev. "
1084 " " "
1085 " " "

1137 Gentiana from Butterfly val.
8 " " Soda springs south of Lake Tahoe "
9 { It seems I sent you 2 species together A. Hartwegi and one you thought new. The other has larger, thicker, spotted, cordate leaves, larger flowers and loves dry sand; This is near streams of Butterfly val
1140 .. Hills near Reno.
1 Road-side near Pyramid lake. (Has a disagreeable scent.)
2 Near Steamboat springs Nev. (Habitually crowded, as this specimen)
3 " " " (Also crowded like specimen)
4 " Pyramid lak. Washoe Co. Nev.
5 On hard cement. Side of "Webber buttes near Sierra val,
6 Near summit of Lassen's peak, Eriog. marifolium?, var.
7 Steamboat springs val. Nev. (E. Paronychia?)
8 " " " "
9 Near summit of Lassen's peak, in volcanic ashes.
Eriog. pyrolaefolium
1150. " " " Castle peak, Nevada Co. (Always clumped.
1 Streams of Sierra com, { Have had no time to describe tree — as requested.
2 " " " { Too busy with centennial trees &c. to carefully examine — as I meant to do.
3 Pinus flexilis? Summit of Tallac peak. 11.150 ft. near Tahoe,
4 Quercus near Big Trees of Calaveras, 4 to 8 feet high,
5 " The only tall, (20 to 40 feet), oak of Sierra & northern valleys,
6 " Foot-hills and small ones in Indian valley" Plumas Co.
7 Excellent forage grass. com. in valleys. (Has been omitted in my sendings to Dr. Vasey.)
8 Marshy shore of Webber lake; average height as shown
9 Indian val. and northward
1160 Side, near summit of Mt. Rose, 8,600 ft Connected by a high ridge to Castle peak. Only one plant. that about 9 feet around.

1086 Kings val. near Lassen's peak.

1087 An Astragalus not before collected. Summit of Castle Peak, 9.000, Nev. Co.

1088 Sierra val. & Great Basin. root creeping.

1089 " " near Loyalton,

1090 Mt. Rose 8.600 ft. connected to Castle peak. Nev. Co.

1091 Webber lake val on peaks.

1092 " " " and Sierra val, among willows

1093 Side of the sierras on rocks.

1094 " " " " on high benches

1095 Sierra & Indian vals. com

1096 " " " "

1097 " in one locality only. mud of warm springs.

1098 " & Webber lake, com.

1099 Reported 2 years ago "Aralia — ? probably new", How is it? Indian val. 4 to 6 feet high.

1100 Webber lake

1101 Tellac peak near lake Tahoe

1102 Stanislaus river. Calaveras Co.

1103 Irrigating ditches, near Reno. Nev.

1104 Banks of Mohawk creek. Plumas Co.

1105 North end Sierra val. Plumas co. on sand,

1106 Washoe Co. Nev. near Reno.

1107 Tellac peak. overlooking Tahoe lake.

1108 Sierra val. (Sent before but I wish to identify duplicate.)

1109 Eagle val. near Carson City

1110 " " " " "

1111 Near Lake Tahoe,

1112 Near Carson City

3 " " " with No 1112

4 Foot hills. near Big Trees.

5 Sierra val. & southward

6 Sierra and Great Basin. Is it Aster or Macharanthera?

7 A bit of a solitary plant by the road-side, Sierra val.

8 Near Big Trees, Calaveras

9 " " "

(2nd package.)

1120 Carson val com

1 Sierra " "

2 Near Big Trees. and Carson val. 2 to 5 ft.

3 Sierra valley. in grain fields. Rafinesquia?

4 Near Big Trees.

5 Sierra valley. com

6 " " in sloughs.

7 } These Pentstemons have been sent before, but were not
} reported upon. Is not one of them the supposed new one?
(which is very copious in branches)
8 } Both of Plumas Co. 1127 near Lassen, +28. near Quincy. is
tall (2 to 4 ft) much branched. with few, yellow & purple flowers.

9 American val. near Quincy (Sent before but unreported.)

9½ - Foot-hills " Big Trees.

1130 Haskell's peak near Sierra val.

1130½ - By some mistake marked on Watson's report "Glossopetalon Nevadense", (Pyramid lake

1 Sierra val.

2

3

4 } Gilias from foot-hills near Murphys.

5

6

1229 *Pellaea Bridgesii* Mts. of Meadow lake near Webber. } Sent that
30 } *Cheilanthes gracillima* (" " " } you may
1 } " X " " " } note the locality.

Sierra Valley. Sept. 3rd 1876.

Dear Professor,

Many thanks for your reply to my last to Dr. Gray, and for your kind words. Glad the tired Dr. G. will take a holiday. Too bad about the new Bot. Cal. I write Judge (?) Hastings in vain. Where can I obtain a copy at any cost? I cant think of going into winter quarters at Webber lake without it.

Above are a few notes of plants sent herewith. I feel particularly humiliated on the record given of *Astragalus Lemmoni*, credited to Prof. Bolander "and apparently not since met with". I have coll. bales of it annually for 5 years, and knew what it was for Dr. G sent me the "Contrib. to Acad." that described it in the exact Latin.

I lost credits on several other things by sending at first to Prof. Bolander instead of Dr. Gray. Prof. B. perhaps did not mean to omit reporting collector. He was never nearer Lassen's peak than 80 miles. The *Gilia Larseni* & the *Hulsea nana* var. *Larseni* also *Corydalis Caseana* were collected only by me. I had the pleasure of a glance at the Bot. Cal. at Santa Barbara, and notice several omissions.

I have found *Veronica Americana*, *V. scutellaria*, *V. arvensis* & *V. serpyllaefolia* all in Sierra Co., also several other plants not noted.

I wish (since I must live without the new Bot.) that you would copy my last long list out of your books & forward. In the last Orders especially, it would be very helpful.

My health for several weeks has been bad, but if able I mean to study & experiment thoroughly this winter, hoping to qualify myself for business that will pay, a little.

Dr. Parry kindly undertakes to determine & distribute our Coll. of plants, sending them only where wanted, I will collect for seed again.

Again thanking you very sincerely I remain Yours &c. J. G. Lemmon.

Plants from Sierra Valley & vicinity, Cal.,
Collected by J. G. Lemmon.

No. 1186. A *Trifolium* Lemmoni 3 to 7 leaved, which was reported from Harvard 4 years ago as *T. subcaulescens*, but not described in new Bot. One locality only, Sierra Valley. Flat, spreading, the peduncle turning downward in age, while the flowers are reflexed upward. Curious.

No. 1187. *Astragalus Lemmoni*. Coll. in '72. Specimens communicated by Prof. Bolander. Abundant in north & western portions of Sierra val. Often 3 feet across. Seeds sent abroad reported as growing (Should have been sent often, to keep you in mind.

" 1188. *Astragalus lentiformis*, Coll. first in '73 in Clover val. afterward at several points in Sierra val. Reported as a var of *A. Lemmoni*, & more requested, to show connecting forms, &c., hence frequent sendings, instead of *A. Lemmoni*.

1189. *Hulsea nana* var. *Larseni*. First Coll. in '73, with Prof. Case then in '75 with John Larsen. First specimens sent to Prof. Bolander & by him communicated. Reported first as "*H. algida* var.?" Volcanic ashes of Lassen's peak.

1190. *Eriogonum* pyrolaefolium-rare Ashes of Lassen. (1149 of former lot.

1191 *Ranunculus* — alismaefolius? ~~or Lemmoni~~? var. alismellus Webber Lake. The *R. Lemmoni* is abundant in high vals. and generally large & bright.

No 1192. Antirrhinum Kingii. Sent in '75 (896 & 1130½) with Nev. Coll. but omitted in Report. Near Reno. Nev. and ravines near Pyramid lake.
" 1193. Cleomella parviflora ~~obtusifolia~~, Gray " " " Not yet reported by you (1073.)
1194. Gilia intertexta Webber Lake, Aug. '76.
1195. Lophanthus ~~urticifolius~~ " & other high localities
1196 ~~[illegible]~~? monolepis pusilla, var. Pyramid val. (No 898 of last sendings.)
1197 Delphinium simplex, var. Yo-Semite Val.
1198 Calochortus Leichtlinii, Hook f. ~~venustus~~ Webber peak & others, late-flowering
1199 ~~Potentilla~~ Horkelia fusca, ~~abnormal form?~~ Sierra val. (Smaller than P. glandulosa.
1199½ " fruticosa Near Webber lake. (Sent to be located)
1200 " ~~gelida? var.~~ form of P. Breweri. Peaks of Webber. Aug 24, '76.
1201 Polygonum Shastense Webber & Castle peaks. abundant.
2 Eriogonum marifolium High peaks near Webber L. Aug 24, '76.
3 Gilia congesta. Webber & Castle peaks.
4, Echinospermum deflexum, var.?? Near Webber L. (Inquired for by Dr. Gray.)
5 Polygonum Torreyi " " Collected also by Dr. Parry Aug 24, '76. =707. Often seen but, it seems, omitted.
6, ~~Chenopodium~~ Atriplex — Too young; Sierra val.
7 Mentzelia dispersa Webber peak, Aug 24, '76.
8, A Crucifer from Mts of Webber lake, " "
9. Troximon ~~Erysimum asperum~~ glaucum " " & Sierra val.
1210, Polygonum coarctatum Near Webber & Donner lakes. Coll. also by Dr. Parry. First sent you (No 277.) 1873.

Peucedanum(?) n. sp.? Wanted in fruit.
No 1211 Erigenia bulbosa? Not in new Bot. Sent you last season (No 1098.) Found in only one locality. Sierra val. Early in Spring, in alkali mud. Unlike Sanicula tuberosa.
1212, Mimulus rubellus Near Webber lake.
1213, " Same, var. latiflorus Not near " " (Coll. also by Parry.
14 Claytonia Caroliniana, var. sessilifolia ~~lanceolata~~ (with the next.)
15, " triphylla Near Meadow lake. Alt. 8,000 ft.
16 Horkelia fusca Webber lake. (Is it H. parvifolia?)
17- Galium trifidum, form "
18 Ribes sanguineum, var. variegatum
19 Cnicus Andersoni Is it Andersons'? Sierra Val. (Coll. also by Dr. Parry.
1220- Arnica foliosa Webber lake.
1- Aster adscendens "
2- Sedum obtusatum, Gray. Mts.
3- Trifolium longipes " " val. low form
4- Abronia umbellata Sea shore at Santa Barbara very thick leaves. Fls. bright crimson or Magenta. Will be sent you also by Miss Plummer of S.B. Living plants.
5 Milla ixioides? Webber & Meadow lakes.
6, Orthocarpus pilosus " "
7- ~~Aster~~ Aplopappus lanceolatus " lake & Sierra val.
8 Gilia linifolia " "

Notes of Plants sent Sept. 18th, '76 to Prof. Watson,

No. 1232, Silene, montana? Webber lake mts,

" 1233. Œnothera dentata, var. grandiflora — San Bernardino, Reported last winter as Œ. dentata,

" 4 Gilia — dianthoides, ‖ High mts near S. Bernard,

5 " Palmeri We thought it n. sp. for a time, Is it G. densifolia? = 1167

6 ~~Oxytheca~~ ? Near San. Bernard, — Centrostegia leptoceras

7 Azolla americana On surface of a stream near Santa Barbara, Mrs. S. E. Higgins,

8 Gilia cotulaefolia Farm of Elwood Coopers near " ". J. G. L.

9 A crucifer from summit of Lassen's peak, 1872, & 1875, Vesicaria montana

1240 Which is Nemacladus & what is the other?
} Nemacladus tubulatus, n. sp. — but long ago collected by Wallace.
1 } Gilia micromeria — new find

2 Hulsea, from near summit of St. Bernardino, Injured by neglect while searching for a lost comrade — 2 days, Is it H. Parryi?,

3 Draba aurea, Injured at the same time as above,

4 Cyperus inflexus ~~Carex~~, Sierra valley, rare,

5 Luzula parviflora " " on mts,

6, Carex tenella Butterfly " Plumas Co, with Darlingtonia,

7 Scirpus riparius Pool on ranch of Col Hollister Santa Barbara,

1248 ~~——~~ or Carex ~~Hoodii~~ Sierra valley, C. stipata J. Bailey - 1884

The crucifer was sent to Prof. Bolander 4 years ago and lost?

My dear Professor,

Again I send you a small package of plants to name,

Too unwell of late to collect, I have been cleaning up the herbarium, sending off promised plants, &c, so come upon these without a certainty of name yet. Hope you have copied my large list of last fall, and that it is on the way to me, Mrs Ames has not her "Bot. Cal." yet, and mourns deeply! By the kindness of Mr. Pringle of Vt. Mrs Austin has a copy. Good, I hope you have despatched one to me by Ex. C.O.D.

Dr. Parry at home and hard at work, Did not stay at Colorado to collect Conifera seed, Not bearing this year, This ought to give use a market for the firs & spruces here, which are bearing a little about 1/4 as usual, I will write Prof. ~~Wat-son~~ Sargent about the matter,

Hope Dr. Gray & party are enjoying a fine trip, Please tell him of my plants sent you. I hope he and Prof. Olney will get at the Carices and Gramineae I sent Dr. Vasey. I cannot soon again collect such another fine lot,

My health is very poor, suffer with a cough & head-ache, Nearly unfit for anything, If I recover, I will hybernate at Webber lake again to study & experiment, assisted by flowers books, and a costly microscope, a present from Santa Barbara friends,

Please report on plants herewith. Yours &c., J. G. Lemmon,

Plants from J. G. Lemmon,
Sierra Val, Cal, Sept 2nd 1877,

No 1262 *Gentiana* —?, near G. *Newbergi* but *several*-flowered, &c, Sierra Val,

" 1263 *Brickellia* uniifolia, Eaton, Nev, Desert,

" 4 *Potomogeton* — ? " " in a hot spring.

" 5 *Spyrogyne*? " same " "

" 6 ——? rocky stream beds, Indian Val,

" 7 *Eritrichium Kingi*? (I've sent this plant to Dr. G. several times. It seems not well described. It is *perennial*, prostrate, running in damp ground, forming acres of carpet, Sierra Val,)

" 8 *Rumex* —? Nev, desert, 2 ft, high,

" 9. *Mimulus nana*? (Cannot this be separated from the little, low, purple one?) Sandy hills,

1270 *Nitophyllum* This word, copied from your report, so puzzled Dr Parry that I send again to make sure, Alkali flats, Nev,

" 1 *Trifolium Lemmoni*, var, Turns its head downwards, the fl, reverting upward during estivation, Sierra Val, on house ranch,

1272 Ranunculus Lemmoni Better
spec. than sent before. The flower often
1½ in. across, abundant this season. S. val.
" 3 Ranunculus repens?, very leafy, & smooth
springy, muddy places, Sierra val.
" 4 Crepis occidentalis var. crinita G. This
same ground, Sierra val.
matures 2 months before the typical plant on
" 5. Draba alpina var algida?, Mt Lola.
" 6 Pentstemon Lemmoni, Better spec.
Abundant on Downieville peak,
" 7 Hieracium — ? " " near top.
Seems dift. from any described,
" 8 Astragalus Austinæ Better spec. Acres
of it on summit of Mt. Lola, near Webber L.
" 9 Leucothoe Davisæ, in fruit, Downieville peak,
1280 Ivesia Gordoni var. pygmæ?. " " white fl.
" 1 — ? (I've nothing on cryptogams.)
" 2 — ? Curious sedge-like thing from
Narthecium
springy places, side of D. peak,
" 3. Sedge — ? " " "
(Who is studying the Gramina?
1284 Cuscuta — ? Downieville peak,

My dear Prof.

Foregoing is a list & notes of a few more plants sent for various reasons, as stated,

As strength permits I take short excursions, but hereafter must stay at home on the qui vive for the great botanists. Could not get out on the desert soon enough. Only found a few odd things, The Potamogeton is abundant in Gulling's h. hot-spring north side of Honey lake desert, Spyrogyra also,

A 2 day's trip to Mt Lola revealed several strange things & abundance of the new Astragalus Austinæ,

Another 2 days exploration of the gold-hearted Downieville butte gave us several rare or new things. The rest from Sierra valley,

Hoping you are well and that the Bot. Cal. is approaching completion I remain
Yours sincerely
J. G. Lemmon,

Plants from J. G. Lemmon
Aug. 1878.

Cholame Val. belongs to Col. Hollister.

No. 1400. Eriodictyon — ? Plant 3 to 5 feet high, branching from base. lvs. strong-scented, lower 4 to 8 inches long; flo. creamy white, urceolate!

If new please dedicate to Col. W. H. Hollister of Santa Barbara — a noble gentleman of distinguished ability and benevolence, — the peculiar patron of the poor & deserving. Cholame Val. Monterey Co.

No. 1401. Herpestis ? (Not in Bot. Cal.)

2. If Bergia how about the tubular calyx? If Ammannia latifolia what of the 5 distinct petals? Near Tulare lake.

N. ~~1402~~ 1403 ~~Gratiola~~ Ammannia humilis, Mx. — Wright Califa ; 5 petaled! Yo-Semite.

140~~3~~4 Artemisia ? Clark's Ranch.

5 Hemizonia near Merced.

6 Gilia, — floccosa? but petals yellow.

7 Chorizanthe — Palmeri near San Louis Obispo

No 1408, Chorizanthe diffusa?,
9 " membranacea?
1500 (Composite)
1 Castillea In wet grounds, 4 feet,
2 Lessingia but fls, yellow!
3 ~~(Saxifragaceous~~ Claytonia Chamissonis — bulblet bearing in axils of leaves
4 Veronica scutellata (Not in Bot, Cal,
5 Bolandra, Yo-Semite, 3 places,
6 ~~Carex~~ Hemicarpha occidentalis, Gray, foot-hill streams,
7 Hemizonia — terete, gland-tipped lvs, leaves,
8 ~~Carex~~ Cyperus inflexus, Yo Semite
9 Cyperus phymatodes 3 ft. Bank San Joaquin
1510 Jussiaea repens, var. californica always 5-parted, King's R,
1 (Caryophyllaceous) Mollugo verticillata Chowchilla Ranch,
2 Linum micranthum near Mariposa
3 Hemizonia congesta? but rays white, San Louis, C.
4 Madia — robust 3 ft. near Mariposa
5 ~~Mesembryanthemum~~ Sesuvium portulacastrum Tulare lake-shore,
6 Polygonum nodosum near Mariposa grove,
7 Hemizonia (Calycadenia) yellow,
7½ " " is the white the same?
8 Chenopodium ~~ambrosioides~~? Botrys near Y.S.
9 Antirrhinum cornutum, at Clarks found only before by Hartweg.

1520 Composite Yo. Semite
1 Potomogeton — ? King's R. To Robbins
2 Calochortus clavatus, n.sp. San Louis
3 Eritrichium Torreyi, abundant in meadow at Clark's,

Lemmon's

Plants from Shasta & Vicinity.

*1431 Cornus sessilis – from McCloud river, (seemingly with 1 berry,)

○ 2 ~~Primula~~ ~~Spiraea pectinata~~? with finely-divided lvs, near a snow bank of Shasta,

1 3 Astragalus, Hookerianus? side of Scott Mt near Shasta, but pods pointed.

#11 4 Calandrinia, nana, near Castle lake west of Shasta. Belongs to the paniculate section. None in Bot. Cal.

x 5 Orchidaceous plant, from woods near Shasta, (fls white!) ~~Cephalanthera oregana~~

6 Viola cuneata! Near Shasta

1 7 Dicentra, pauciflora a n. sp. between formosa & uniflora, 2 & 3 fls. white. Near Castle lake near Shasta.

8. ~~Cynoglossum~~ ~~[illegible]~~ diffusum from woods of Shasta flowers pink, lvs narrow.

x1 9 ~~Collinsia~~ [illegible] quadri[illegible], Spach, Wintoon Mt. McCloud river, fls. small & white;

Californica, Gray

x 1440. Smilax. McCloud river

+ 1. Allium. Head-waters Sacramento, river

— x 2. Staphylea Bolanderi, in fruit, On a rivulet of McCloud, (Found after much search & exposure to heat at 146° for 3 hours.)

1 3. Cypripedium. Scotch camp near Sisson's, at Shasta, lip white, alae orange,

1 4. Clintonia? uniflora Scotch Camp,

pubescens, Nutt

x 5. Cornus. Sisson's meadow, Shasta. (in fruit)

1 6. Cycladenia tomentosa, with the C. humilis on Cinder Cone of Shasta, Confirms the species?

+ 7. ~~Caulanthus~~? barbatus Sandy bottoms along the upper Sacramento, (lvs. similar from bottom to top.)

1 8. ~~Brodiaea~~ Calochortus nudus. Sisson's Shasta

1 9. Habenaria elegans, Scotch Camp. "

" 1450 ~~Hordeum~~? Veratrum Californicum, Dur. Sisson's meadow,

x 1. Pleuricospora fimbriolata, but corolla lobes longer than calyx side of Shasta,

2

[illegible] occidentalis, [illegible]
" 1452 ~~Stipa~~ ? Sisson's meadows,
× 3 Alnus incana, var. glauca with leaves (or galls) among the aments, Sisson's near Shasta,
× 4 Pinus (flexilis) Balfouriana Side of Scott Mt. near Shasta,
5 Cornus pubescens Sisson's, Shasta
×1 6 Cnicus Breweri " meadows.

Plants of San Bernardino, County.

1457 Erigeron. Side of Grey back,
× 8 Draba " " "
× 9 Ivesia, [illegible] in tough sod. " "
depressed, white fls.
×1460 Oxytropis —? ~~Astragalus calycosus~~? top of Grey back. 9,700 ft,
[illegible] Thurberi
×1 1 An odd thing from San Gorgonia Pass, forming clumps of bushes 2 to 4 feet high. A corolla-like involucre enclosing the pistils, the stamens outside.
○ 2 Croton. Californicum, apparently. Am tired of waiting for 2nd vol. Bot. Cal. to tell me about the Apetalae,

Psathyrotes Schottii

x 1463 ~~Aplopappus~~? Side of Grey-back 7,000 ft. alt.

Tetradymia squamata

x 4 (~~Bigelovia~~. Woods near Grey-back.

occidentale

x 5. Thalictrum " " "

obtusifolia

x 6 Cleomella [illegible]. Mohave Desert.

laxiflorus

x 7 Lupinus ~~Calcaratus~~? Can it be this sp. away down in San Bernardino Co.

x 8 Platanus racemosa. Near San Bernardino

x 9 Dalea Cala! (of Parry) in fruit. White-water river Col. Desert.

~~Senecio ingens~~

x 1470 ~~Chrysopsis~~. Near San Bernardino

x 1 ~~Vilfa~~? Poa—?" "

x 2 Chorizanthe pungens, Bth.

+ 3 " spinosa, n.sp. " "

x 4 Hulsea. ~~Parryi~~ nana. Top of Grey-back, (nearly acaulescent,)

x 5 Silene. Mt. San Bernardino,

x 6 Lilium Parryi. 2 to 5 feet high. sweet-scented, Near S. Ber.

~~splendens~~

x 7 Calochortus ~~luteus~~ San Bernardino.

1 8 " splendens "

J. G. LEMMON,
Sierra Valley, California,
Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,
—AND DEALER IN—
Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;
—ALSO AGENT FOR—
The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

[illegible] Cal., Feb. 16, 188[illegible]
[illegible]

My dear Dr Gray,

Yours [illegible] of the 7th at hand, inquiring [illegible] [illegible]

[illegible]

[illegible]

14 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

grows on the river bottom of
[illegible] [illegible] sand, [illegible]
with a distinct form of
[illegible] [illegible] Pursh.
(See same, No. 1447.)

[illegible] it certainly a small,
[illegible], [illegible] [illegible],
[illegible] [illegible] [illegible], very numerous
stems from the same root,
quite abundant and striking.
(Since destroyed all my [illegible]
[illegible] [illegible] [illegible] [illegible] my [illegible].)

1442. (Brickellia incana ?
[illegible] [illegible], [illegible].

3. Brickellia [illegible] ?
[illegible] [illegible], [illegible].
(not [illegible] from [illegible].)

× [illegible] — [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible].
[illegible] [illegible], [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

and of [illegible] distinct [illegible]
[illegible] [illegible] [illegible], [illegible]
[illegible] [illegible], pink & [illegible].

1445 [illegible] — ?
[illegible] [illegible] [illegible], [illegible], [illegible],
([illegible] [illegible], [illegible], [illegible]
[illegible] [illegible] [illegible].

7. [illegible] [illegible] "[illegible]
[illegible]" [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], [illegible], [illegible] [illegible],
2 [illegible] [illegible] [illegible], acci-
[illegible], [illegible] [illegible], and
[illegible], often numerous follicles.
[illegible] [illegible] [illegible], [illegible]
[illegible] [illegible] [illegible] [illegible].

Collected June 23, 187[illegible].

[illegible] [illegible] [illegible]
[illegible] [illegible], [illegible] [illegible] [illegible],
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible], [illegible], [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible],
[illegible] [illegible] for [illegible] [illegible]
[illegible] [illegible] in [illegible].

22. Astragalus atratus?? West valley.

micranthus
23. Ranunculus;— Lives wet grounds.
24 Umbellifer White-heads glen, Pyramid lake,
Peuc ~~[illegible]~~ macrocarpum —
~~24½~~ " ~~Buffalo cañon of Humboldt~~ desert
25. " "Mountain meadows" near Lassen peak
Peucedanum [illegible] — instead of globular)
26. Sanicula (not tuberosa, see long tubers,
Nevadensis
27. Umbellifer Surprise valley.
Ferula multifida? [illegible]
28 " Goose lake valley.
Peucedanum villosum, triternatum + Nevadense
29 " "Mountain meadows" Plumas Co.
Peucedanum triternatum
30 " Goose Lake val. & Pitt river.
Peucedanum [illegible] South fork
31 " West valley, on Pitt river,
[illegible] Nevadense for flowers or fruit.)
32 " Near Pyramid lake. (We were too early
~~Peuc~~ Cymop. globosum
33 " West valley, on S. fork, Pitt river.
34. Crucifer, Sand dunes, Humboldt desert.
Arabis? [illegible]
~~[illegible]~~ Quincy
35. Lathyrus —? Pass between Indian val. and
36 " High peaks of Warner range near
Lathyrus [illegible]
Silver creek, Surprise valley.

37 Trifolium. Peaks (6.000 ft.) west-side
[illegible]
of Pyramid lake, Although resembling T. Andersonii this is very distinct, & earlier in flower though on much higher ground.

[illegible]
38 Lupinus ~~[illegible]~~? Surprise valley. (An extension of range.)

J. G. Lemmon,
Sierra Valley, Cal.
Amateur Botanist, Collector in Natural History,
AND DEALER IN
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley Cal., June 1877

Plants collected April 23rd to May 28th '77. from Sierra valley to Goose lake Oregon. via Pyramid lake, Surprise valley, the Humboldt desert & head-waters of the Pitt river, through Washoe & Roop counties of Nevada, & Plumas, Lassen & Modoc counties of California.

By J. G. Lemmon & Miss Sara A. Plummer

Peraphyllum ramosissimum Nutt.
No 1 A rosaceous shrub we think of the Amidalaea sub-order as it yields the flavor of Prussic acid & bears the other characters of the class. but in addition it has 2 to 5 carpels. (New genus?) (Bush 2 to 4 feet high with curving branches forming a sugar-loaf shape, Dry hills in Buffalo cañon, N.W. to Surprise val, and

also in West valley & on the paſs between
Willow creek valley & Susanville, Cal.

No 2 Ceanothus, near cuneatus but
not "upright" but decumbent, Every plant
of it so, Mohawk val, Plumas co.

occidentalis
No. 3. Betula oc from Surprise val. Cal.
the whole trunk (12 & 15 feet high) red &
glandular like the twigs,

glandulosa
4, Betula? Big Meadows, bark gray.

5, Cornus — ~~pubescens~~? Buffalo cañon
[illegible]
Modoc Co. (hairs attached by the middle)
[illegible]

6, Aplopappus. Low, weak bush,
Stenophyllus, Torr.
with few flowers. Buffalo val. Nev. &
West val., Laſsen Co. Cal.

7. Glossopetalon Nevadense! Finely in
fruit on original locality the west
bluff (shore) of Pyramid Lake. Extremely
bushes cropped by stock into compact clumps 2 & 6 feet
local. No one knows of other bushes.

8, Ephedra Large, robust, gray-bark
very distinct from E. antisyphilitica
growing with it. West shore Pyramid lake.

9. Erigeron? — Peaks back of Whitehead's
Townsendia [illegible]

glen, west of Pyramid lake. Apr 28, Rays
a ~~great~~ striking blending of pink & salmon.

[illegible]
10, Erigeron, from Buffalo cañon
Laſsen Co. May 1st (None matured),

11. Senecio. Is this S. coronopus of
multilobatus?
Nuttall? or N. S.? (immature plants.)

12 Balsamorhiza, with tubular rays.
[illegible]
(occasionally) & leaves twice pinnate. Peculiar for the insects stupefied or dead,
found within the corolla.

occidentalis
13. Crepis, How can this be a
var of occidentalis? so different, and
grows with it. This from Sierra valley,

[illegible], var.
14, Troximon, Eagle lake. Laſsen Co,

15. Antennaria Is this dimorpha?,
pubescence of akenes
not bi-uncinate ~~hairs~~ as I can detect.

Crocidium multicaule
16, Surprise valley, Cal.
[illegible] pilosus
17, Castilleia, Eagle lake. Laſsen Co,
18. A crucifer from Surprise valley [illegible]
[illegible]
19. Crucifer, Long val. & Surprise, [illegible]
[illegible]
20, " Alturas plains. South fork Pitt river.
[illegible]
21. Astragalus obscurus? West
valley. Modoc Co.

If anything cultivable is dedicated to me I will be overjoyed and not proceed to give it away as formerly, for it dawns upon me (when too late, perhaps.) that hard-earned honors are the principal profits in botany, & I may be privileged to earn but few more,

My cultivable finds all bear other names (and more worthy names than my own,) but many friends desire, that my name shall be connected with some showy species.

Our principal hope for novelties is in the cherry-like shrub, the Ceanothus the red-barked Betula, some of the umbellifers, the clover, the Lupines and the ferns. The latter we shall also send on to Eaton,

I am off to-day for San Bernardino to explore certain peaks with W. G. Wright my prized friend of that ~~place~~.

Shall be at home in 2 weeks when I hope to receive a report from you of these plants with many "n. sp." in it.

Yours faithfully
J. G. Lemmon.

J. G. LEMMON,
Sierra Valley, California,
Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,
—AND DEALER IN—
Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;
—ALSO AGENT FOR—
The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

Cal., 18

(2nd Sheet.)

39. Lupinus not like arboreus. Yellow-flowered & dwarf, from American valley, near Quincy. sulphureus?
40. L. laxiflorus (N.B. bracts persistent.)
41. " ~~Brukei~~? West val. Pitt river.
42. " ~~holosericeus~~? Indian val,
43. " — ? Near Quincy, Cal. Always of the same size & abundant in the locality.
44. " ~~pusillus~~? Surprise val. on dunes.
45. " Grayi. (Sent to show extension of range. Yo-Semite to Lassen.)
46. Grass from Eagle lake. Plumas Co.
47. " ~~[illegible]~~ Illinois ranch near Quincy.
48. Erigeron. Buffalo cañon — ?
49. Collomia heterophylla? Indian val
50. a small crucifer. Surprise val.
51. Phacelia Ivesiana (Can it be this? away ~~this,~~ ~~away~~ up in Surprise val.

52.) Erytrichium Kingi? Dry sand dunes common. annual or biennial.

53.) Erytrichium, that you once called E. Lemmonii, Sub-aqatic. perennial. forms large dense carpets, acres in extent, in Sierra val. along streams.

54. E. [illegible] West val. Pitt river.

55.) " Sand dunes Surprise val.

56.) " circumscissum " " Sierra val

57 Hemizonella pusilla Big Meadows.

58 Conanthus? [illegible] Dry sand dunes Surprise val. & near Susanville,

59. Mimulus [illegible] same locality as above

60. ~~Psilocarphus~~ [illegible] ? Indian val.

61. ~~(Composite)~~ [illegible] ? Surprise val.

62 Riccia flutans? Lemna trisulca Streams of high valleys. in the current.

63. If this fern is ~~Cystopteris~~ Woodsia [illegible] it is different in ~~form~~ than any we have heretofore seen. Forms large masses on the lava beds above Pitt river and from West valley to Wister & Marsh's ranch on Madaline plains. It appears to be a Cheilanthes, indusium marginal, specially seen on last year's fronds. Ask if it is new.

Sierra val, June 4, '78

My dear Dr.

Foregoing are the most of our finds that are suspicious. There has been so little snow or rain in the north and the spring was so cold there was but little vegetation out, but what appeared was siezed; though amid storms of snow & wind, at times.

Miss Plummer proves an excellent explorer with keen vision & skillful hand. In case some suitable thing in our coll. prove ~~distinct~~ I strongly urge that she be honored — both in recognition of service now, ~~and~~ for several years of laborious but unrecognized work in ~~Southern~~ Cal.

Should anything from West val. prove distinct I should like it dedicated to J. S. West Esq. of Loyalton Sierra valley, by whose liberality we were much aided in our outfit.

64. Crepis, just picked up from a hill near Webber lake, but recently left bare of snow. June 3.rd

J. G. LEMMON,
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Sierra Val. Cal., Aug 6, 1879

My dear Prof.

By this mail I send a package of plants directed to you this time, as you seem to be always at home,

They comprise some of the rare forms collected both in Southern Cal. and around Shasta.

In San Bernardino Co. I was fortunate in finding a [illegible] [illegible] unvisited by Parry's Lily & brought away 300 bulbs. Can you help me to sell them?

Have I heard [illegible] [illegible] of my new [illegible] viscida found on the Colorado Desert.

of these plants are forwarded without examination.

The [illegible] District [illegible] & B. B. Redding to Dr. Gray [illegible] been received for 6 months, and will be [illegible] as long as I hope [illegible] so if there any [illegible] which you wish me to [illegible] I shall be [illegible].

I have [illegible] [illegible] of the panicled Calandrinia. Will send one to Prof. [illegible]. The large Magenta fls. were quite showy.

I hope to get [illegible] [illegible] [illegible] [illegible] [illegible]

Prof. Eaton has not kindly favored me with the Botany of Whipple's Report.

I suppose you & Dr. Gray [illegible] still be very busy [illegible] work [illegible] the [illegible] of Parry & Palmer!

Yours sincerely J. G. Lemmon

Both these ought to be very valuable.

I scaled Grey-back the highest peak in S. Cal. but found few rare things.

Returning I went up to Shasta into a region so near to Oregon that I have several plants not described in Bot. Cal. & I hope also, some that are new.

A beautiful fern I have forwarded to Prof. Eaton.

In this package for you I am particularly interested in the Dicentra, the Calandrinia the Godetia, & the Cornels.

But a few days ago I sent specimens of Trifolium for examination, with a request [illegible] to [illegible] Sara A. Plum[illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] & many [illegible] for [illegible] [illegible] Cal-lection many are the same as those she met with me in [illegible] Cal, [illegible] [illegible] [illegible].

All[illegible] [illegible] [illegible] honored by a beautiful plant that will bear [illegible] [illegible] [illegible] [illegible] for [illegible] [illegible] for [illegible] of Cali-fornia [illegible] [illegible] useful scientists. — [illegible] [illegible] of [illegible] a [illegible] & [illegible] I am indebted for ~~many~~ special favors of late.

Perhaps you will be pleased to get fruit of [illegible] Staphylea. It nearly cost me my life. I had but a limited time for search and the mercury stood at 148.° I suffered prostration followed by congestion of the brain. [illegible] [illegible] [illegible] [illegible] [illegible]

141. ([illegible]) Sphaeralcea [illegible], Gray
Pandora ranch, N. Sta Catalina, Apr. 26.
142 [illegible] emoryana, Gray [illegible] of [illegible] ranch. [illegible] May 3.
[illegible] to be found.
143. Astragalus ~~[illegible]~~ Cobrensis, Pandora ranch, N. Side Sta
Catalina ~~[illegible]~~ - High foot-hills. 5000 ft. Apr. 25.
144. } ~~[illegible]~~ microphylla, Gray. n. sp. 5 ft. high. S. slope of Sta Catalina. Apr. 3.
145. } ~~[illegible]~~ with the preceding " "
146. Galactia - ? Fruit wanted Pandora ranch. N. S. Sta Cat. " 24.
147. [illegible] Coulteri, Gray
[illegible], [illegible]
[illegible] Sand wash at mouth of Cañon [illegible], N.
Side of the Catalinas. [illegible] May. [illegible]
149 [illegible] Sophora [illegible], Watt
[illegible] May 1
150. ~~[illegible]~~ [illegible]
151 [illegible] pilosus, Torr. [illegible] [illegible], Chihuahua to
[illegible] [illegible] Sept. 1880.
152. [illegible] [illegible], [illegible] Catalina, May 5.
153 Mimosa biuncifera, Bth.
154 [illegible] pubescens [illegible] [illegible], Torr. [illegible]
155 ~~[illegible]~~ [illegible] Catalina. Apr. 8.
156. Prunus Capollin, Zucc. [illegible]
[illegible] May 16.
157. ~~Rubus~~ deliciosus, Torr. [illegible] 5-8 ft.
high. N. Sta Catalina [illegible]
158 [illegible] ~~[illegible]~~ [illegible] Summit - Sta Catalina Apr. 27.
159 [illegible] Opuntia [illegible]
160 [illegible] slope [illegible] May 30.
161. [illegible] [illegible] Catalina, [illegible]
162. Talinum [illegible] [illegible] Arizona [illegible]
163 Haplopappus [illegible]
[illegible], Gray Catalina [illegible]
164 [illegible]
165. Brickellia [illegible], Torr.
6 [illegible] hispidum, Gray, var. [illegible] May [illegible]

Bot.d & replied to
Nov. 15/1881

Oakland. June 10th 1881,

Dear Professor.

Home again, tired, nearly sick but bringing our sheaves with us.

Now we go up to our old home in Sierra valley to rest a few days then off for Salt Lake. Return here again before the end of this month, & reorganize for the autumn campaign southward again.

But in the meantime we wish to hear from you and others whom we have lost in our dismal exile in the desert.

How did your northern collection turn out? How many N. Sp? How many changes of old species? divisions? consolidations? &c &c.

We have had no time to study a plant all this summer, and as for that we have little to study from, only a few of the many books necessary.

So we have hastily selected some 200 specimens & forward (in 2 packages,) by this mail. Some we hope are new or at least are rare. The ferns are so well described by Eaton that we do not send specimens tho' we have a fine large lot.

The grasses may come later. Cacti & most of the trees. Yucca &c. we send to Dr. Engelmann, who poor man! has been prevented from coming this season. Müller has kept the place in good order, is well & hearty. The [illegible] [illegible]
in best wishes & kind regards [illegible] &c. [illegible]

Arizona, New Mexican & Texan
Plants with a few from S. California,
Collected March to June, '81, by J.G. & S. P. Lemmon.
Submitted for determination June 10th 81,

No110 Delphinium azureum, Mx. Is this Greene N. sp.?
Santa Catalina Mar. 28,

111 Viola Canadensis, L. Along streams summit of Sta Catalina,
in dense pine forest. Apr. 30.

112 ~~Lepidium~~ Thlaspi alpestre, L. Side of Dos Cabasas. May 25,

113 Crucifer Greggia camporum, Gray On an island of Rio Grande near El Paso,
(May be introduced) May 15.

114 Lepidium [illegible], Gray Same as above (on sand wash

115 ~~Cleome~~ Tropidocarpum gracile, Hook What Cleome is this so near
home as Lathrop (near Stockton) undescribed
thus far. Ap. 23.

116. Mollugo cerviana Banks of El Rialta S. side of Santa Catalina
(Aug 80) and Ap. 26. 81

117. Portulacca Claytonia ambigua El Rio. Cal. on plains Mar. 26,

118 " oleracea Sand Wash near Santa Catalina May 10,

119 " pilosa, L. " Ft Bowie Ariz. " 20,

120 Cerastium longipes, [illegible] Santa Catalina 5,000 Ap 10.

121. Acer (grandidentatum?) Along stream in the
the dense pine forest on summit of Santa Catalina.
Ap 30. Yields good sap for sugar. 20 - 60 ft high with
a dia. of 1 - 1½ feet, dark bark, long spreading limbs.
(A similar maple reported from Dos Cabasas.)

122 Glossopetalon spinescens, Gr. On summit of Organ
Mts. [illegible]

[illegible] desparia, HBK [illegible] 7

124 Polygala puberula, Gray [illegible]

125 Polygala macradenia, Gray Near base of [illegible] forms large masses.

126 Ceanothus Fendleri, Gr. [illegible] (C. [illegible])

[illegible] microphyllum, Gr. [illegible]

[illegible] acerifolius, [illegible]

Abutilon crispum, Gray

" Abutilon [illegible], Gray

Abutilon — near A. incanum = A. Texense, T.&G., var.

2 Hibiscus denudatus, Bth. ; var. [illegible]

" Hibiscus Coulteri, Harv.

" Sida hederacea, Torr 4

[illegible], Torr

136 Leg. Tephrosia Spring Creek

" Phaseolus acutifolius, Gray

( ) [illegible], T.&G.

[illegible]

Erodium [illegible]

[illegible] v. [illegible] Apache [illegible] 26

1. [illegible] [illegible], [illegible] 14.

19. Chamaesaracha Coronop[illegible] Ft. Bowie, Arizona. " 25

250. Physalis pubescens [illegible] S. Catalina foot-hills. Apr. 8.

251. [illegible] Discolor, [illegible] [illegible] 29.

252. Pentstemon [illegible] [illegible] 2.

253. " [illegible] 4.

254 " [illegible] Canon [illegible] Apr. 15.

255 " [illegible] Arizona [illegible]

256 " [illegible] N. Sta Catalina Mar. & Apr.

257 Antirrhinum [illegible] S.E. Sta Cat. Apr. 10.

258 " [illegible] (Maurandia [illegible]) [illegible] high foot-hills Sta Catalina.

[illegible] Canon [illegible] May 10.

259. [illegible] [illegible] Sta Catalina [illegible] 15

260. Stemodia [illegible] [illegible]

261 [illegible]

262. [illegible] 5

263 " [illegible] Cañon on west side of Sta Cat. Mts. May 20.

264 " [illegible] Imperial mine, N. Sta Cat. Mts. [illegible] ft. " 6.

265 [illegible] What Castilleja plant is this? Pandora ranch, high foot-hills of N. Sta Cat. [illegible] May 3.

266. [illegible] Same place as above, also at [illegible] 10

267. [illegible] [illegible] land of [illegible] 15.

268. [illegible]

269. [illegible] 8.

270. [illegible] 27.

271. Salvia [illegible]

272. Aristolochia [illegible]

1. [illegible]

---

17 [illegible]

18 [illegible]

May [illegible]

[illegible]

[illegible]

[illegible]

[illegible] Sta Catalina [illegible]

175. [illegible]

176 [illegible]

177 [illegible] Sta Catalina [illegible]

178. [illegible]

[illegible] Sta Catalina [illegible]

[illegible] May 2?

[illegible] Sta Catalina [illegible]

(") [illegible]

[illegible] Sta Catalina [illegible]

[illegible] Woolshull [illegible]

[illegible]

[illegible] Sta Catalina [illegible]

[illegible]

92 [illegible]

[illegible]

196. (Euphorbia.) S. S. of the Catalina May 1st.
197. Trichoptilium [illegible] N. side " Apr. 26
198. Hymenothrix [illegible], Gray [illegible] 4000 ft [illegible]
199. [illegible] Rillito ground [illegible] Arizona. Apr. 25
200. Gilia [illegible] [illegible]
S. slope of the Catalina Apr. 1
201. [illegible] Near [illegible] of the Catalina Apr. [illegible]
202. Gymnosperma corymbosum [illegible] S. slope " " "
203. [illegible] Parry foot hills " " " "
204. [illegible] spinulosum [illegible] " " " "
205. Hymenoclea [illegible], Gray [illegible] Rillito, Arizona " 25
206. Chrysopsis [illegible] Catalina May 5
207. Chrysopsis villosa [illegible] [illegible] (
208. Chrysopsis villosa [illegible] foot hills of the Catalina Apr. 12
209. [illegible] ericoides [illegible] (
210. Trichoptilium [illegible] Tucson [illegible] " 18
211. Porophyllum [illegible] [illegible] of the Catalina " 22
Early flowering
212. [illegible] tanacetifolius, HBK. [illegible] the Catalina [illegible] Apr. 18
213. [illegible] Early flowering [illegible] of the Catalina
[illegible] 1880 [illegible] May 20 [illegible] 1
214. [illegible] Lemmoni, Gray [illegible] Catalina [illegible]
215. [illegible] [illegible] Arizona May 28
216. [illegible] S. S. of the Catalina Apr. 21 1
217. Hymeno[illegible] ( ) [illegible] Camp [illegible] foot hills of the Cat. [illegible]
218. Hymenopappus — [illegible] of the Catalina [illegible]
219. Verbesina [illegible] [illegible] foot hills [illegible] May [illegible]
220. [illegible], Gray [illegible] Rillito [illegible] May 18
221. [illegible], Gray foot hills near the [illegible] May 8
222. " [illegible] Catalina [illegible] May 13
223. " —? Foot hills near the [illegible] many flowers (6?)
May [illegible]

224. Malacothrix Clevelandii, Gray [illegible] foot hills, the Catalina [illegible]
225. } Stephanomeria minor [illegible] of [illegible] May 26
226. " " [illegible] slope of the [illegible] 4
227. " " [illegible] Arizona
228. [illegible] [illegible] foot hills of the [illegible] 24
229. Microseris linearifolia [illegible] May 1
230. [illegible] [illegible]
231. Plumbago scandens, L. [illegible]
[illegible] Apr. 25
232. [illegible] macrodon, Torr. ! [illegible]
233. " Linaria, Torr. [illegible]
[illegible] of the Catalina [illegible] Apr. [illegible]
234. [illegible] Mexicana, Torr. [illegible] Tucson, [illegible] May 2
235. ~~[illegible]~~ [illegible] auriculata, Engelm. [illegible] Arizona
[illegible]
236. Acerates [illegible] decumbens, Gray [illegible] the Catalina [illegible]
237. Philibertia undulata, Gray [illegible]
[illegible] May [illegible]
238. [illegible] Krynitzkia [illegible] [illegible]
foot hills S. slope of the Catalina Mts. Apr. [illegible]
239. [illegible] Coulteri, Gray [illegible] (
240. Collomia Cavanillesiana, Don [illegible]
[illegible] May [illegible]
241. Gilia floccosa, Gray [illegible] of the Catalina
[illegible]
242. [illegible] integrifolia, Torr. [illegible] 1.
[illegible] foot hills
243. [illegible] ~~[illegible]~~, Gray [illegible] of the Catalina [illegible]
Lithospermum angustifolium, Michx.
244. [illegible]
245. (Cuscuta [illegible], Gray [illegible] May 7
" ([illegible].) High foot hills of [illegible] Camp [illegible] Apr. [illegible]
Evolvulus argenteus, Pursh

No. 275 - Chorizanthe [illegible], [illegible] Western foot-hills of the [illegible] May 5-
" 276 " [illegible] Plains on N. Slope of the [illegible]. Apr. 5-
" 277. " " [illegible] Foot-hills at [illegible]. 9-
" 278. [illegible] [illegible] Top of Organ mts. Texas. May 16-
" 279 ~~[illegible]~~ [illegible], L. [illegible] ravine. S. S. [illegible]. Apr. 5
" 280 Polygonaceae [illegible] Western ravine of the [illegible]. May.
" 281. Rumex hymenosepalus. The "Canaigra" of Tex. & Mex. Rich in tannin-
In ravines and sand [illegible] [illegible] at [illegible]
[illegible]
" 282. Is this another species of Hollisteria?
Parade ground of Ft. [illegible]. May 26
283. [illegible] [illegible] Ft. [illegible] " "
284 Rosa [illegible] near [illegible] May
285. ~~[illegible]~~ [illegible] [illegible] Apr.
286. [illegible] [illegible] little [illegible]? [illegible] Apr. 16-
287 [illegible] [illegible] Top of Organ mts. Texas May 15
[illegible] (Shown to Dr. Engelmann [illegible]) May. [illegible]
288. [illegible] [illegible] May
289. [illegible] [illegible] " 9.
290 ~~[illegible]~~ [illegible] " "
291 [illegible] [illegible] 28.
292 " —? (pink ") N. S. [illegible] Apr. 28-
293 ([illegible] [illegible]) " " " " " "
294. [illegible] [illegible] " " " 15-
295. [illegible] [illegible] [illegible]
296 [illegible] [illegible] Cal. Ap. 28-
297 Agave [illegible] Organ mts. El Paso Texas May 7-
298 " Shawii San [illegible] in S. Slope. [illegible]
Large [illegible] fragrant flrs. [illegible] 4-6-8-) ft. high. [illegible] plants of [illegible] used!

[illegible] [illegible] [illegible] rocks near Tucson, May 2[illegible].
[illegible] [illegible] " " " " " "
311. Pinus ponderosa [illegible] 5 [illegible] - N. [illegible] Cal. Mts.
312 " [illegible] [illegible] " " " "
31[illegible] Yucca macrocarpa " " ") " " " "
I suppose this is Dr Engel.'s new species

Now my dear sir, do not trouble yourself to determine these plants on [illegible] of your [illegible] [illegible] [illegible], [illegible] of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible].

By the way were my new discoveries of last year (Euphorbia Lemmoni, Senecio Lemmoni, &c.) [illegible] [illegible] [illegible] published? As the Dr. is to remain abroad for some time yet, to whom can we look [illegible] [illegible] to name & publish our plants?

My [illegible] [illegible] [illegible] [illegible] has accompanied me everywhere [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] of the [illegible] please [illegible] [illegible]; and if a new genus is found please give it her maiden name of "Plummer," perhaps in the form of Plummera.

When [illegible] [illegible] [illegible]? [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]]

Our mother joins in profound regards
J.G. & S.P.L.

369 Hieracium tip of Mt. E. Rucker val.
370 Aster ericaefolius near Ft Bowie, Apache P.
1 Hymenothrix wrightii " " "
2 Grindelia squarrosa, Camp Rucker, Rucker val.
3 Aster canescens Hermitage, Rucker val.
4 Verbesina podocephala n. Apache Pass.
5 — — — in Rucker valley.
6 Hymenothrix Wislizeni ~~"~~ "
7 Cnicus near Dos Cabasas peak.
8 Cosmos bipinnatus, floor of Rucker valley.
9 Tagetes micrantha streams of Apache Pass.
380 Solidago Hermitage, Rucker val.
1 Verbesina Apache Pass
2 Berlandiera, stream banks of Rucker valey, (lost my large specimens,) They were 2-3 feet high, robust leafy, leaves not lyrate oblanceolate 10-18 inches long, mostly radical in a large rosette,

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The Rucker valley so often written above is a large secluded region in the south end of the Chiricahua range 40 miles from the border, & 60 east of Tombstone. Only one inhabitant now a hermit claiming the upper part of the valley for a future stock range. He lives for security in the mouth of a tunnel, He shared his quarters with us for three weeks, enabling us to make good collections.

Apache Pass is 40 miles north of Rucker & 15 south of the R.R. In it is Ft Bowie where we stopped as guests of Dr. & Mrs Ord for several weeks. The commander of the fort extended distinguished favors, &c.

Compositae.

from the Chiricahua mountains of Arizona,

Collected Aug. Sep. & Oct. of 1881,

by Jg. & S. P. Lemmon,

"in 89" Senecio [illegible] in Grey, 1880, S. side Santa Catalina sent east year.
No. 305 Brickellia Near Rucker valley.
6 " " " "
7 Encelia Plains near " "
8 Brickellia Hermitage " "
× 9 " (Lemmoni, Greene) " "
310 " grandiflora, Hermitage. " "
11 " Mts E. of " "
12 " Fendleri " " " " "
13 " betonicifolia " S. " " "
14 " " N. " "
15 " " " " "
16 " grandidentatum " E. " "
17 " " N " "
18 " Carmenatia " S. of Bowie " "
19. I cannot place this in its genus
~~320~~ High forest on top of a mountain on the east side of Rucker valley

320 Stevia Mts. N. of Rucker valley.
1 " in shades, " " " "
2 " meadow " " " "
3 " serrata ? " E " "
4 Baccharis Hermitage " "
~~5~~
6 " Sand wash. Plains, near " "
7 = (213) " high Mts. N. of " "
8 Aplopappus laricifolius on high rocks. S. " "
9 Erigeron flabellus Mts. N " "
330 Gutierrezia Euthamiae Ft Bowie. Apache Pass.
1 Galinsoga. Plains near Apache Pass.
2 Bidens in Spring. Hermitage, Rucker val.
3 " near Ft Bowie. Apache Pass.
4 " " " " "
5 Heterospermum tagetinum " "
6 Sanvitalia. (N Sp ?) streams. Rucker val.
7 " Aberti. Apache Pass & " "
8 Schkuria Hopkirkii Plains near " " " "
9 Aster multiflorus in Spring. Hermitage " "
340 " at " " "
1 Actinomeris angustifolius Mts. N. of " "
2 " on limestone rocks, Ft Bowie
3 Viguiera laxa " " "

344 from Apache Pass.
5 Gymnolomia multiflora ? Rucker val.
6 top of peak S. of " "
7 Hymenothrix Wislizeni Apache Pass.
8 Senecio Douglasii ? " "
9 Xanthocephalum gymnospermoides Hermitage Rucker val.
350 Aplopappus gracile Apache Pass.
1 Villanova chrysanthemoides " "
2 Actinella (N Sp!) = Pl[illegible] "
3 Solidago Hermitage Rucker val
4 " " "
5 Artemisia Canadensis " "
6 Hymenatherum Mts N. of Apache Pass.
7 Pectis longipes (Perennial!) " "
8 Artemisia Ludoviciana Rucker val.
9 Perezia Arizonica Mts near Apache Pass.
360 " Wrightii ? " of Rucker val.
1 " " var. albus " " " "
2 Brickellia " "
3 Eupatorium Berlandieri. Apache & " "
4 Brickellia Mts of " "
5 " along streams " " "
6 " grandiflora Apache Pass.
7 Erigeron flagellaris. " "
8 near Ft Bowie, in " "

460 Tragia ~~angustifolia~~ stylaris, Muell. Hermitage Rucker val

1 Croton — ? Apache Pass

2 Diodia Teres, var. " "

3 Gomphrena nitida Rothr. & var. rosea. " "

4 Chenopodium cornutum, B&H. " "

5 Amarantus Palmeri, Wats.—male " "

6 Boerhaavia purpurascens " "

7 " [illegible], n. sp. " "

8 " " "

9 Oxybaphus ~~coccineus~~ Plains near " "

470 " ~~[illegible]~~ angustifolius, [illegible], n. sp. " " "

1 Boerhaavia erecta, var. " " "

2 " " "

3 Mirabilis = 488 = [illegible] " "

4 Eriogonum Alatum, Torr Hermitage. Rucker Val

5 " Abertianum Torr Black Mt, Apache P.

6 Jamesii Torr. Mts. E. of " "

7 Bromelia? [illegible] This pretty thing is strangely like a gigantic Spiranthes. Plant 1–2 ft. high. lvs. bright green, fls greenish-yellow turned one side. Rare—in Hermitage of Rucker val. just in flower, Sep. 22. First detected by Mrs Lemmon.

478 Allium [illegible] Mts. S. of Apache Pass

9 Hesperanthes Torreyi, Watson " " "

480 Polygonum aviculare, L. Ft. Bowie " "

1 " [illegible], Watt. I believe near Walker Peak

No's ~~gone~~ ~~omitted~~

[illegible]

482 Eriogonum [illegible] San Gorgonio Pass

3 Physalis crassifolia? Hermitage Rucker val

" "

4 Ammannia latifolia "

5 ~~A Grass~~ Lithospermum, n. sp. Apache Pass

6 Asclepias ~~[illegible]~~ [illegible] " "

7 Hydrophyllum Virg. [illegible] ~~Coos Bay Oregon~~

8 ~~Mirabilis~~ oxybaphus Wats. var. oblongifolia Ft. Bowie Apache P

9 A Nicotia [illegible] " " "

490 An Amaranth [illegible] Rucker val

1 ~~Acanthochiton Wrightii~~ Apache Pass

2 ~~[illegible]~~ Salvia [illegible] " "

493 (Rubiaceous) [illegible] " "

[illegible]

493. Sep. & Oct. 1881. [illegible] & S. P. Lemmon

8 Gymnolomia [illegible]

[illegible] n. sp.? [illegible]

[illegible]

[illegible]

" [illegible]

Sicyos parviflorus, Watt. angulatus

Ligusticum montanum, Watt.

Ligusticum [illegible], Greg

[illegible]

=25 [illegible] anisophyllus, [illegible]

[illegible] gracilis, v. rigida, form laxiflora

[illegible] (not found)

3 [illegible] phyllum [illegible], Torr.

=247 [illegible] Comm[illegible]

}=404

}=400

[illegible], v. glabellum

[illegible], v. angustifolium

=255

[illegible], BH

[illegible], v. [illegible]

n. sp.

Janusia, Torr

=256

=252

=234

Mexicana, Lag

orbiculata, BH

[illegible], v. [illegible]

[illegible]

Mexicana

[illegible]

Euphorbia bilobata ! Rucker val

" cuphosperma, Black M. Apache P.

" dentata, Rucker val

" florida ! " "

" revoluta " "

1 " hypericifolia " "

2 " serrulata Plains " "

3 " [illegible] n. sp. Black M. Apache P.

4 " adenoptera Rucker val

5 " serrulata ! " "

6 " revoluta Apache P.

7 " hypericifolia ! " "

8 " serpyllifolia " "

9 [illegible] Rucker val

5[illegible] [illegible] [illegible] [illegible] [illegible]
x [illegible] " [illegible] [illegible]
[illegible] [illegible] palustris, 2 var [illegible] [illegible]
[illegible] [illegible] pulchella, HWK Mts [illegible] " "
[illegible] [illegible] involucratum, Willd; var [illegible] " "
x [illegible] asperulata? [illegible] [illegible]
[illegible] polycarpa, Nutt [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] pedunculatus, var. [illegible] [illegible]
[illegible] Nitella [illegible] [illegible] [illegible]
[illegible] Elodea? [illegible] " "
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible] No. 3
[illegible] Plants missing

Numbers 494 to 573 Collected mostly in the Chiricahua Mts. Sept.–Oct. [illegible]

✓	494	Thalictrum [illegible] [illegible]	Rucker [illegible]	
✓	5	~~[illegible]~~ [illegible] Wright, Gray	"	"
✓	6	[illegible] [illegible]	"	"
x	7	Polygala [illegible]?	"	"
x	8=124	" [illegible]	"	"
x	9	Mimosa wrightii Gray	[illegible]	
x	500	Polygala [illegible] [illegible]	Rucker [illegible]	
x	1	" [illegible]	"	
x	2	[illegible] [illegible]	"	
✓	3	[illegible] ~~[illegible]~~	"	Apache Pass
✓	4	Silene [illegible]	"	Rucker [illegible]
✓	5	" laciniata ~~Cav~~	"	
x	6	[illegible] [illegible]		"
x	7	" [illegible]	"	"
x	8	~~[illegible]~~ [illegible]	"	"
x	9	[illegible] ~~[illegible]~~	[illegible]	
x	10	" [illegible]	[illegible]	
x	11	[illegible] [illegible]	"	"
x	12	[illegible] [illegible]	[illegible]	
x	13	" [illegible]	"	"
x	14	[illegible] [illegible]	"	"
x	15	" [illegible]	"	"
x	16	[illegible] parviflora, Willd	[illegible]	
x	16	[illegible] Wislizenii, var	[illegible]	
x	17	[illegible] [illegible]	"	"

× [illegible]
Sphaeralcea Fendleri, Gray [illegible]
Emoryi ? [illegible]
" angustifolia, Spach [illegible]
[illegible] Texana "
[illegible] caespitosum [illegible]
[illegible]
Rothrockii, [illegible]
" [illegible]
[illegible]
[illegible], virens [illegible]
Whipplea [illegible] Watsoni [illegible]
[illegible]
[illegible] patens [illegible]
[illegible]
[illegible] angustifolia [illegible]
[illegible] reticulata [illegible]
[illegible] lobacea [illegible]
[illegible]
[illegible]
" [illegible]
[illegible]
[illegible] " [illegible]
[illegible] plumulosa, [illegible]

[illegible]
" [illegible]
" [illegible]
" [illegible]
" bilobata [illegible]
" rotundifolia, [illegible]
~~[illegible]~~ Calyptridium [illegible]
=135 [illegible]
=35 [illegible]
[illegible] Gambelii [illegible]
[illegible]
[illegible]
=151 [illegible]
=141 [illegible]
Dalea albiflora, [illegible]
[illegible]
=34 [illegible]
Petalostemon [illegible]
[illegible]
[illegible]
Dalea [illegible]
[illegible]
[illegible]

Plants sent to Cambridge from the collection of 1881, by J. G. & S. A. Lemmon; mostly Arizonian.

Cracca Edwardsii, Gray, var. ~~sericea~~
No. 508. Astragalus. W. side of Santa Catalina Mts. May '81.

Coulteri, Benth.
509. Astragalus ,, [illegible] river, [illegible]
[illegible] pass. [illegible] Diego Co. Cal.

Galactia – too poor = 146
510. ~~[illegible]~~, Santa Catalina Mts. '81

Emoryi, Torr., var
511. Sphaeralcea. Tucson. Ariz.

Emoryi, Torr., var. Wrightii
512. " Arizona.

Emoryi, Torr (typical)
513. " Catalina. Mts.

Tephrosia tenella, Gray
"554." (of [illegible]) Catalina.
[illegible] near Apache pass. Sep. 1, '81.

"556" ~~Tephrosia~~ Chiricahua Mts, Sep. '91.
Cracca Edwardsii Gray – near var. glabella
Sida filiformis & S. Lindheimeri, var.
557. ~~[illegible]~~ Apache pass. Sep.

Galactia tephrodes, Gray
558. ~~[illegible]~~. Santa Cat. Mts.

559. Cologania longifolia, Gray, var. erect stems
Plains near Apache pass. Sep. 21. '81.

560. Phaseolus acutifolius, Gray Chiricahua Mts. Sep.

561. Cologania longifolia, Gray climbing plants.
Chiricahua Mts. Sep.

562. Anoda hastata, [illegible] flowers. Apache pass. [illegible]
Also [illegible] different from
A. [illegible].

Dichondra repens, Forst.

No. 600. ~~Viola~~. Like V. sarmentosa. Forms large mats, Rucker Valley in the Chiricahua Mts. Sept.

601. Polygala? or Carlo-Wrightiana? Santa Catalina Mts. Nov. [illegible]

602. Top of Graham Mts. [illegible] Prof. Watson called it [illegible] bracteata, but it looks off!

Hibiscus Coulteri, Gray

603. [illegible] fl. red.

cinerascens, Gray

604. Desmodium [illegible]

batocaulon, Gray, var.

605. " [illegible]

diphysus, Gray

606. Astragalus [illegible] Santa [illegible] (like the willow marked) [illegible] Sept.

Galactia Wrightii, Gray

607. [illegible] Sept.

Microstylis montana, Rothr.

608. [illegible] Chiricahua on the high [illegible] of peaks.

609. [illegible] Chiricahua [illegible]

lyrata, var. macrophylla

610. [illegible] [illegible] Chiricahua (like the [illegible]) [illegible] [illegible] [illegible]

dumosa, Gray

611. Ipomoea [illegible] Sept. [illegible]

612. " [illegible] involucrata?

614. [illegible] San Antonio creek near Tucson, [illegible]

Rothrockii, Gray, ined.

615. Solanum [illegible] Sept.

asperrimum, Gray

616. " [illegible] Chiricahua [illegible]

11

105 [illegible]

List of Arizona plants of [illegible], coll. principally in the Huachuca Mts. from Aug. [illegible] by J. G. & S. A. P. Lemmon

L. 2617 Clematis ~~[illegible]~~ ligusticifolia Nutt. ! typical form

Tanner's canon, Aug. [illegible]

L. " 2618 " ligusticifolia, Nutt. [illegible]

Carr canon Oct.

L. " 2619 Thalictrum Fendleri, Engelm.

Rucker's canon Sept.

L. " 2620 " same

Cienega Oct.

L. " 2621 " Fendleri ?

Ramsey's canon Sept.

L. " 2622 " Fendleri [illegible]

Ramsey's Canon Sept.

L. " 2623 [illegible] [illegible], [illegible] !

[illegible] [illegible], [illegible]

L. " 2624 " same

[illegible] [illegible]

L. " 2625 " [illegible] [illegible] !

[illegible] [illegible], [illegible]

L. " 2626 " [illegible] [illegible]

[illegible]

(2)

J. G. 2627. Aquilegia chrysantha, Gray !

Ft. Huachuca canon. [illegible] [illegible] [illegible]

J. " 2628 Delphinium ~~[illegible]~~ azureum, Mx

Mt. Huachuca. On moist ground near stream. Aug.

J. " 2629 Berberis ~~[illegible]~~ pinnata, Lag.

Ciénega of Tanner's canon. [illegible] Aug.

J. " 2630 Argemone (Mexicana, L. var. hispida, Gr.) platyceras, Link & Otto

Plains near Ft. Huachuca June

J. " 2631 Corydalis aurea, var — apparently not worth distinguishing

"Upper Pass" [illegible] Ft. Huachuca canon. [illegible] June

J. " 2632 Draba [illegible], Gray ! rather [illegible]

Fern Conservatory. Tanner's canon. Aug.

J. " 2633. Draba aurea, Vahl

Peaks of Mts. north of Ft. Huachuca June [illegible]

J. " 2634 ~~Thelypodium~~ ~~Streptanthus~~ longifolium, Watson

Tanner's [illegible], Aug. 11.

J. " 2635 Thelypodium micranthum, Watson June [illegible]

J. " 2636 Thelypodium linearifolium, Watson (var. [illegible])

"Upper Pass" [illegible] Huachuca canon. June

J. " 2637 Polanisia [illegible], Nutt. !

[illegible] Aug. 4.

" 2638 { trachyspermum, T&G

{ Cleome integrifolia, T&G [illegible]

(39)

1. No. 2639. Linum neo-mexicanum, Greene (Pap. [illegible] [illegible])

[illegible] canon. June-Aug.

1. " 2640. Polygala hemipterocarpa, Gray!

Carr canon. July 23.

1. " 2641 " Lindheimeri, var. = 497

[illegible] rock, [illegible]

1. " 2642 Silene laciniata, Cav., var. Greggii

[illegible] canon. July-[illegible]

1. " 2643 Cerastium nutans, [illegible]

[illegible] [illegible] [illegible] [illegible]

1. " 2644. Drymaria effusa, Gray! (but not [illegible])

Carr's canon, Huachuca Mts. Sept.

1. " 2645. Samolus Valerandi, L., var. Americanus [illegible]
larger form [illegible] [illegible] [illegible]
Smaller " " Huachuca [illegible] [illegible].

1. " 2646 [illegible] humilis, Gray [illegible] [illegible] [illegible])

[illegible] spring. July 23.

1. " 2647 [illegible] filiformis, [illegible] Gray. = S. diffusa, Wats. var.

[illegible] near Fort Huachuca

1. " 2648. [illegible] [illegible] Gray

Santa Catalina Mts. Apr. [illegible]

1. " 2649. [illegible] [illegible], [illegible]. !

[illegible] canon [illegible]. [illegible]

(41)

2650 [illegible] Wats.

[illegible] canon - abundant in fruit.

„ 2651. Geranium Mexicanum, HBK

[illegible] canon - July.

„ 2652 „ caespitosum ~~[illegible]~~ James

[illegible] canon - Aug.

„ 2653 Oxalis decaphylla - HBK.

[illegible] canon. Aug.

„ 2654 „ violacea L. - so called ?

[illegible] canon. Aug.

„ 2655 Astragalus humistratus, Gray

Stevens ranch. July 10.

2656 Astragalus hypoxylus, Watson - n. sp.

Maloney's ranch. July 12.

„ 2657. Astragalus Thurberi, Gray

Fort Huachuca [illegible]. July.

„ 2658. Astragalus Hartwegi, Benth

[illegible] ranch, [illegible]. July

„ 2659. ~~[illegible]~~ [illegible] - var. triphylla ~~[illegible]~~ [illegible] [illegible].

[illegible] mine. Sept.

„ 2660 „ ~~[illegible]~~ leptocarpa, Benth

[illegible] near [illegible] of [illegible]. July 28.

5

✓ No. 2661. Calliandra [illegible], Gray. & var.

[illegible], July 10.

✓ " 2662. " humilis, Benth.

[illegible], July [illegible]

✓ " 2663 Cologania longifolia, Gray [illegible]

[illegible], Aug.

✓ " 2664 Clitoria Mariana, Linn.

[illegible], July – Sept.

✓ " 2665 Cracca ~~[illegible]~~ [illegible], Gray. R n. sp

Sierra [illegible]

✓ " 2666 Cracca Edwardsii, var. glabella

[illegible], Aug.

✓ " 2667 = 2665 " var. [illegible], Gray ?

[illegible] Aug.

✓ " 2668 ~~Hosackia~~ Nissolia Wislizeni, Gray

South point of [illegible]

✓ " 2669 Hosackia rigida, Benth.

[illegible], July

✓ " 2670 " oblongifolia, Benth.

[illegible]

✓ " 2671 [illegible] arpa [illegible]

[illegible] Aug.

J. 2672 Dalea [illegible], Gray.

[illegible] [illegible] – Aug.

J. 2673 Dalea polygonoides, Gray ?

[illegible] [illegible] – [illegible], [illegible], [illegible].

J. 2674 " calycosa. Gray.

[illegible] [illegible], Aug.

J. 2675 " lachnostachys, Gray ([illegible] [illegible])

[illegible] [illegible] [illegible]. [illegible].

J. 2676 " nana, || Torr. ([illegible])

Tombstone hills, Aug. 13.

J. 2677 " Wrightii Gray. not found

Tombstone. Aug. [illegible]

J. 2678 " [illegible], Gray. Two forms

[illegible] [illegible], [illegible].

J. 2679. Vicia leucophaea, Greene ([illegible] [illegible] [illegible])

[illegible] [illegible]. Aug.

[illegible] [illegible] [illegible] package [illegible].

J. 2680 Erythrina coralloides, ~~[illegible]~~ Tr.

[illegible] [illegible], Aug. [illegible]

J. 2681. ~~[illegible] [illegible], [illegible] [illegible] [illegible]~~

Cologania Lemmoni, Gray, n. sp. near C. humifusa, Hemsl.

[illegible] [illegible] [illegible] [illegible], Aug.

J. 2682. Tephrosia tenella, Gray

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

71

No. 2682½ ~~Canavalia~~ Phaseolus acutifolius, Gray (P. parvulus, Greene

Tanner's mill. Aug.

" 2683 Lupinus ~~[illegible]~~ concinnus, Agardh, var (?)
collected also by Pringle in the Sª Rita Mts.

Tanner's mill, Aug.

" 2684 " [illegible], Wats.

High mesas of Huachuca Mts. Sept.

" 2685 " affinis ! (large, pls not restricted.)
on one specimen — they are on the other, as usual.

San Bernardino, Cal. May.

" 2686 Hosackia brachycarpa, Benth.

Sonoita Val., June 24.

" 2687 ~~Desmodium~~ Neomexicanum, Gray

Connolly's ranch Aug.

" 2688 Lathyrus palustris, L. – var.

Connolly's ranch. Tanner's can., Aug.

" 2689 Vicia pulchella, H.B.K.

Ft. Huachuca cañon, Sept.

" 2690. Mimosa dysocarpa, Benth.

Tanner's canon, Sept.

" 2691 " biuncifera, Benth.

Tanner's canon. June Sept.

" 2692 " ~~[illegible], Benth.~~
Mimosa Lemmoni, Gray, n. sp.

Fort Huachuca canon. June

√, 2693 minor = 2692, in print.

[illegible] cañon at [illegible] Sept.

√, 2694 Phaseolus Wrightii, Gray.

[illegible] cañon July–Sept.

√, 2695. Robinia Neo-Mexicana, Gray ~~[illegible]~~ L.

Fort cañon & [illegible] Aug. & Sep.

√, 2696. Trifolium involucratum, Willd.

Turner's cañon. July

√, 2697 " " ~~var.~~

[illegible] ranch. July.

√, 2698 Cercocarpus parvifolius, Nutt.

[illegible] ranch. Sept.

√, 2699 Potentilla Thurberi, Gray

[illegible] creek. July – Sept.

√, 2700 " rivalis, Nutt.

[illegible] creek. July.

√, 2701 Jamesia Americana, T. & G.

Miller's cañon at [illegible], Sept.

√ 2702 Sedum Wrightii, Gray ?

[illegible] cañon. Aug.

√, 2703 [illegible] pinnatifida, Nutt.

[illegible] [illegible], [illegible], June

J. [illegible] [illegible]

[illegible] — [illegible]

J. [illegible] [illegible]

[illegible]

J. 2706 [illegible] coccinea, Nutt.

[illegible]

J. 2707 Mentzelia hispida, Willd. [illegible]

[illegible]

J. 2708 [illegible] Hartwegi, Benth

[illegible]

J. 2709 ~~[illegible]~~ Apodanthera undulata, Gray

[illegible] July.

J. 2710 Hydrocotyle interrupta, Muhl ~~[illegible]~~

[illegible] June [illegible].

J. 2711 [illegible] angustifolia

"[illegible]", June [illegible]

J. 2712 ~~Cymopterus~~ Ligusticum montanum, B&H

[illegible], July.

J. 2713 = 2720

[illegible]

[illegible] Sept.

J. 2714 [illegible] discolor, Watson — n. sp.

[illegible] Sept.

J. R. 2715. [illegible] ~~[illegible]~~ dumosa, Gray

Fort Huachuca Canon, June.

J. 2716. Aralia humilis, Cav. [illegible] ([illegible])

[illegible] Canon. [illegible]

J. 2717 [illegible] triphylla, Salisb. ~~[illegible]~~

~~[illegible]~~

[illegible], Tanner's Canon. Sept. 15

J. 2718 Galium stellatum, Kell

[illegible] Canon. July 12.

J. 2719 Oldenlandia Greenei, Gray — n. sp.

Wood ponds, [illegible]

J. 2720 Dicranocarpus parviflorus, Gray

[illegible]

J. 2721 ~~[illegible]~~ Spermacoce subulata, Cav.

[illegible]

J. 2722

[illegible]

J. 2723 Mitracarpum breviflorum, Gray

[illegible]

J. 2724 Crusea wrightii, Gray

[illegible]

J. 2725 [illegible] rubra, Cav. ([illegible])

[illegible]

11

[illegible] Wrightii, Gray

[illegible]

" [illegible]

[illegible]

" A Mexican sp. ~~[illegible]~~ var. V. [illegible], HBK.

[illegible]

[illegible]

72 sp^s

Compositae from Southeastern
Arizona
Collected May, Oct 18[illegible]
[illegible]

No. 2729. Stevia amabile! [illegible]

[illegible]

2730 Stevia [illegible]! [illegible]

1 " " var. alba! [illegible]

2 " serrata, Car. var. [illegible]

3 " [illegible], Car. var. "

4 Eupatorium occidentale, var. Arizonicum

5 [illegible] Wrightii, var.

6 " grandiflora, var petiolaris

7 " pringlei

8 Xanthocephalum gymnospermoides [illegible]

[illegible]

9 Chrysopsis villosa, var. hutteri

2740 Brickellia squamulosa

1 [illegible] Euthamia[illegible], var. [illegible]

Aster Potosinus

Xanthocephalum Wrightii

v. incana
nemoralis, v.

Missouriensis, v. montana

Bigelovii

Aster divaricatus

Heterotheca Lamarckii

not found

Neomexicanus

Arizonicus, n. sp.

Greenella discoidea, n. sp.

thesioides

angustifolia, var.

Gnaphalium Arizonicum, n. sp.

Wrightii

Ambrosia aptera

laciniata

Helianthella quinquenervis, v. Arizonica

pauciflora

petiolaris

[illegible]

[illegible] parvifolia

[illegible] !!

multiflora

bifurcatus, var. parviflora

[illegible] pilosa

" procera

" tenuisecta

" = 2767

" heterophylla)

" bigelovii

[illegible] !

[illegible] !

Actinella Cooperi

" Thurberi

anthemoides

Melampodium longicornu

——— Heterospermum pinnatum

Hopkirkia [illegible]

microcephalum

!

leucanthum, [illegible]

Page 4 of Compositae

7 Pectis imberbis

2 " Ludoviciana, var

" Seemannii = (P. Havardii)

" [illegible]?

" Zolocanus, v. [illegible]

3 " n. sp. nov. [illegible]

" [illegible]

Shefaldia [illegible]

" [illegible] var, [illegible]

" undulatus

" Arizonicus

" undulatus var [illegible]

" Rothrockii

Melampodium hispidum

[illegible] Arizonica

" [illegible]

[illegible]

"

9 [illegible] Fimbria

"

Page 5 of Compositae.

[illegible] n. sp.? [illegible]

[illegible] [illegible]? [illegible]

[illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

0 [illegible]

[illegible] Wrightii, [illegible]

brachysiphon

same, var. major

as nyctiginiflorus

{ ~~Bra~~ brachystephana

Lemmonii

glaucescens, Wth.

Gonolobus prasinanthus, Hemsl

Asclep. Mexicana

—— Gomphocarpus hypoleucus

Ascl. stenophylla

" quinquedentata

productus

!

's

—— Bigelovii, n. sp

calycosa

!

Macombii

Litho cobrense, Greene

multiflorum

2 Buchnera [elongata]

[illegible]

Sibirica

onvolvulus sepium

Thurberi

" ——— !

" ——— Lindheimeri, var

[illegible] !

" cuneifolia, Gr. n. sp

" Mexicana

" muricata

" Lemmoni, Gr. n. sp

" costillata, Torr

lätus

" Arizonicus

—— Boehmeria cylindrica

"

—— Margaranthus Lemmoni, Gr. n.sp

" lanceolata, var hirta

" Palmeri, Gray — var

Saracha umbellata DC

stenophylla, Gray

" [illegible]cens, Gr — n.sp

" linarioides

Californica

minor

Calophanes decumbens, Gr

—— canescens, var. Neomexicana

Arizonica, Gr. n. sp.

Henryi, Gr.

!

Salvia spicata, R. & S.

——— Stachys coccinea

——— dentata, toward plicata

!

———

——— Oxybaphus angustifolius, Sweet

[illegible], Torr.

erecta, L.

——— Boerhaavia viscosa, Lag.

Mitracarpum breviflorum, Gray = 2723

[illegible] ?

alternifolium [illegible]

" [illegible]

Palmeri, Gray

" [illegible]

[illegible] A.

Alternanthera [illegible], R. [illegible]

[illegible]

[illegible]

—— [illegible] ? [illegible]

[illegible] occidentalis, Watson

[illegible]

Microstylis purpurea n.sp

Microstylis [illegible]

—— ? P. [illegible] = 2775

✓ [illegible] = 2583

✓ [illegible] Thurberi, Gray

✓ [illegible] ——— Tradescantia tuberosa, Greene — [illegible]

✓ [illegible] volcanicus, [illegible]

✓ [illegible] ~~volcanicus, Wats~~ elegans, Benth

✓ [illegible] Nothoscordum striatum, Kth

✓ "

✓ [illegible] spicatus [illegible]

✓ Hippeastrum texanum, Baker

✓ 2 ——— [illegible], Baker

✓ [illegible] Plummerae — n. sp.

✓ [illegible] [illegible], Pl.

[illegible]

[illegible]

= C. hispida, Willd

[illegible]

[illegible]

[illegible]

[illegible] hispida, Willd. (C. echinata, [illegible])

[illegible]

[illegible]

C. acutata [illegible]

Cannot determine it — a more [illegible]
[illegible] like C. [illegible]

[illegible]

~~[illegible]~~ Cyperus Schweinitzii, Torr

[illegible]

9. ~~[illegible]~~ Scirpus Olneyi, Torr.

[illegible]

Eleocharis [illegible], Torr., var. [illegible]

[illegible] 5.

([illegible]

[illegible]

[illegible]

2915 J G Lemmon is Muhlenbergia glomerata var brevifolia Vasey
2918 " =732 C. Wright.
2923 " Stipa fimbriata, HBK.
2932 " Tripsacum lemmoni.

Washington D.C. Aug 20 [illegible]

My dear Sir

Yours [illegible] received. Thanks for the names. I have compared with the specimens. It was with the [illegible] [illegible] which appear to have been collected in the Colorado desert. [illegible] ~~[illegible]~~ is only different from [illegible] the locality

Truly yours,
Geo. Vasey

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NOTHING BUT THE ADDRESS CAN BE PLACED ON THIS SIDE.

Dr. Asa Gray
Botanic Garden
Cambridge
Mass.

Plants of Arizona, (mostly,)

Collected Aug. - Oct, 1883,

By J.G. & S. P. Lemmon 1203 Franklin St. Oakland, Cal.

(Polypetalae,)

No 3001, Sisymbrium diffusum, Gray ~~[illegible]~~ [illegible]

Santa Catalina [illegible] Aug., [illegible]

2. Drymaria sperguloides, Gr. [illegible]

2½ Silene Douglasii, Hook. [illegible] Cal,

[illegible]

[illegible]

3, Talinum confertiflorum, Greene — at least in part ~~[illegible]~~ [illegible]

[illegible] Santa Cat, Mts, Aug; also Santa Rita Mountains, [illegible]

4, Vitis incisa, Nutt. ~~[illegible]~~ [illegible]

5, Vauquelinia Torreyi, Wat ! Santa Catalina Mts. [illegible]

6. Ingenhousia triloba, DC ~~[illegible]~~? [illegible]

[illegible]

7, ~~Abutilon~~ Sida diffusa, HBK. (S. filiformis, Moric.) Dry cliffs, Huachuca Mts, [illegible]

8, ~~Abutilon~~ Sida spinosa, L., v. angustifolia, Griseb. [illegible] " " "

[illegible]

9, Sphaeralcea angustifolia, Spach. ~~[illegible]~~ Same locality, no flowers,

10 Galium Santa Cat. on Bluffs, Aug.

11 " [illegible]

12 " " " "

13 " " " " "

Calliandra —— ?

3014 ~~Acacia~~ Only a few plants seen on [illegible] Catalina Mts, Ariz. About [illegible] high, branching from the base,

15 Acacia constricta, Bth.! Called A. constricta [illegible] [illegible] Huachuca Mts [illegible] Santa Catalina Mts, Ariz.

16 " Called A. constricta but they [illegible] [illegible] dark [illegible] never becomes so large a shrub as [illegible] Sep.

Both have always been included under A. constricta & it is very difficult to draw the line between them.

17, Astragalus (near humistratus) sonorae, Gray Igo's ranch, Huachuca Mts, Az.

18, ~~Cracca~~ ~~[illegible]~~ Tephrosia tenella, Gray Sand washes of Santa Catalina Mts, [illegible] habit of the [illegible] of Huachuca, growing on high cliffs, which are [illegible] roots [illegible]

19, Calliandra ~~[illegible]~~ eriophylla, var.? Huachuca Mts, Sep. Is this a good species, distinct from C. eriophylla,

20, Dalea ~~[illegible]~~ laevigata, Gray - var.? Foothills Santa Cat. Mts, Ariz. [illegible] [illegible] it [illegible] supposed [illegible], Or is there another? = your 34 (1880).

21, " brachystachys, Gray [illegible] creek, Sep., always small,

22 " " a well developed form Igo's ranch, Huachuca Mts, growing with 21, brachy~~[illegible]~~stachya

23, Desmodium cinerascens, Gray (large fl.) Santa Cat. Mts, Ariz.

24, " gramineum, Gray. (~~linear lvs~~) One plant found, only, " " " very rare

24½ Lupinus Breweri, Gray (on [illegible] slopes near [illegible] Lake, Cal., & Sierra Valley, Cal.

25

(I will put the Gamopetalae in [illegible] [illegible] [illegible] [illegible])

(Gamopetalæ,,)

Compositæ.

No. 3025. Stylocline [illegible]

26. Laphamia? [illegible]

27. Malacothrix [illegible]

28. Bidens [illegible]

29 " [illegible]

(2767) " [illegible]

3030 Franseria [illegible]

31. Pectis "Probably P. [illegible] form" [illegible] rays, [illegible]

32. Pyrrhopappus [illegible]

33. Zinnia pumila. [illegible]

34. Parthenice mollis, [illegible]

35 [illegible]

[illegible] Compositæ

3036. [illegible]olobus   Along streams [illegible]

37. Dichondra repens   [illegible] marsh. [illegible]

38. Jacquemontia Pringlei, [illegible]
often collected, it [illegible]

39 Ipomœa Reddingii (if new,) Santa [illegible] along
streams [illegible]
not described but near to the one [illegible]
"Synopsis Fl. N. A." page 210, under I. [illegible]
discovered by Palmer on the [illegible]
[illegible]
though very long and erect. [illegible]
very large and beautiful species [illegible]
[illegible]fully request that it be [illegible]
of Hon. B. B. Redding, late [illegible]
one of the most useful [illegible]
Pacific Coast. [illegible]
How is figured for the Pacific Rural? to be first
read before the Academy of Sciences.

3040 [illegible]? I cannot make this [illegible] any
order in our books, unless it is a new species of
Cordia in the Borraginaceæ, [illegible]
the § 2. [illegible] Root-[illegible]
and [illegible]! The branches [illegible]
[illegible] Pot Hole ravine, Santa [illegible]

41, Borraginaceæ, ~~I~~ do not succeed in putting this into
any of the genera of "Syn. Fl. N. A."
[illegible] hills, near [illegible] ranch, Santa [illegible]
(The plants are low, [illegible]
and I mistook them at first for Lithospermum
[illegible] but not that, and I find no
species with hairy nutlets, [illegible] described.

42, Echinospermum Redowskii, 2-3 ft. high, [illegible]

43. ([illegible]) [illegible]
On [illegible]
[illegible]
[illegible] quite showy. [illegible]

44 [illegible] chamædryoides [illegible]
Is this the typical [illegible]

3045 Cordylanthus [illegible]
[illegible]

Apetalæ

No. 3047, Eriogonum spergulinum, Gray [illegible] ranch, [illegible] Aug.

48 Boerhaavia paniculata, Rich " " " " "

49 " viscosa, Lag. Foot-hills " " "

50 Mirabilis oxybaphoides, Gray " " "

51, Boerhaavia [illegible] L ~~[illegible]~~ ? [illegible] " "

Jatropha cardiophylla, Mull

52 Mozinna cardiophylla, [illegible] good fruit and [illegible] [illegible] separate plants, [illegible] Aug.

Jatropha angustidens, Mull.

53 [illegible] angustidens, [illegible] plants in a single [illegible] South side Santa [illegible]

Manihot angustiloba, Mull

54 ~~[illegible]~~ near the [illegible]

Manihot Carthaginensis, Mull.

55 " [illegible], [illegible] wash of [illegible] south side Santa Catalina, Aug. A single plant,

56 Euphorbia pediculifera, Engelm. [illegible]

Chenopodium foetidum, L.

57 ~~[illegible]~~ Jaci ranch, Huachuca Mts, Aug.

58 Aristolochia brevipes, Bth., var. acuminata, Watson ~~[illegible]~~, [illegible] forms, Foot-hills of Santa Catalina and [illegible] Aug.

59 " [illegible], [illegible] streams, south side Santa Cat. Aug.

60 " [illegible] with larger [illegible], otherwise same as the other [illegible] on sandy [illegible] near [illegible] Aug.

Which is which ?

Cottea pappophoroides, Kth

61 ~~[illegible]~~ [illegible]

Huachuca Mts. [illegible]

in [illegible]

Carex trichocarpa, Muhl., Gram. 257, 1817 Culm slender, 2°-3° high; leaves narrow (2"-3" wide) long pointed, scabrous, the sheaths smooth; staminate spikes two or three together on a slender peduncle 1'-5' long, their scales appressed, mostly obtuse or nearly so, usually erose; pistillate spikes cylindrical (5" broad) mostly loosely flowered towards the base, the lower on exserted stalks; perigynium setose-hairy, conspicuously nerved broadly ovate at the base, tapering rather abruptly into a cylindrical beak which is tipped by nearly upright short teeth ( ), twice or more as long as the ovate scale. — Rather dry places throughout the Northern States east of the Missisippi. A form with nearly lanceolate ~~lan~~ perigynia from New York (Sartwell & Dewey) is var. turbinata, Dew. var. imberbis, Carey, Perigynium smooth, teeth usually shorter, pistillate scales longer, and sheaths scabrous — New York (Sartwell fide Boott) to Illinois (E. Hall)

var. Deweyi. Leaves scabrous; staminate scales very acute; perigynium smooth ovate-lanceolate, ~~less~~ not strongly nerved, spreading; teeth mostly short. scales very acute about the length of the perigynium. ~~Nebraska~~ Big Sioux & Yellowstone, Hayden, Bismarck, Dakota, A. B. Seymour, and Northward.

3062 Panicum ——? Santa Catalina [illegible]

63 Pappophorum wrightii, Watson " on [illegible] "

64 Leptochloa mucronata, Kth " in [illegible] "

65 Triodia pulchella, HBK. " [illegible] cliffs "

66 Panicum? " [illegible] "

67 Bromus ciliatus, L ~~[illegible]~~? Huachuca Mts, on cliffs, Aug.

68 Panicum obtusum HBK Babocomari creek, near Huachuca Mts. "

3069 [illegible]
Hermannia pauciflora, Watson
[illegible] found on the north side of a high ravine in the south side of the Santa Catalina Mts. At first I thought it a Malvaceous but a glance dispelled this, also its large undulate-winged, prickly fruit, still accompanied by the five stamens and [illegible]!
Only 8 plants found of which this is the largest.

3070 Haplophyton cimicidum, [illegible]
Santa Catalina [illegible]
[illegible]

C. trichocarpa

var. imberbis, Gray Man. 1867

var. Deweyi
C. laeviconica Dew. Sill. Journ. XXIV, 47 1857

var. aristata R.Br. Frank. Nar. Appen. 764 1823

C. aristata, Dew. Woods Bot. 593, 1848

(Duplicate Report)

Plants sent to Dr. Gray May 13. 84.
Coll. from April & May 12th in Mohave val.
(either near Waterman's residence & mill or Calico - a mining town.)
Cal. and near Grand Cañon of the Colorado
at Peach Springs. Ariz.

Calico is 6 mi. N. of Daggett, Calif., Newberry Spr. is about 13 mi. east.

No 3114 Streptanthus Peach Sp. (Not sent)

3115 Linum yellow. near Calico. May 11.

3116 Astragalus. Ap 27. Grand C.

3117 " {(short pod.) Newberry Spring. Mohave, May 10.

3118 " Nuttallianus? Calico. On dry summit. May 11

3119. Psoralea, Calico. May 11

3120 Dalea. near Watermans on Mohave riv. May 10

3121 " " "

3122 " " "

3123 " Near Needles. "

3124 " Grand Cañon Ap 27,

3125 Œnothera " " an annual!

3126 Eupatorium " "

3127 Nicolletia occidentalis. Mohave val. May 10 Decidedly a ♃.

3128 Dysodia Cooperi? near Fort Mohave. Ap 24th

3129 Senecio near Ft Mohave annual! Ap. ~~24th~~ 12

3130 Senecio Grand Cañon &c. Ap 27.

3131. Nemacladus (small) Mohave May 10

3132 " (large), as above. These plants at all stages of growth seem distinct in characters of stem. leaf & fl. &c.

3133. Gilia setosissima Ft Mohave. Ap 2

3134 Phacelia rotundifolia Grand C. Ap 27.

3135 " pachyphylla Ft Mohave. Ap 12.

3136 Nama corrugata N. sp! Near Calico May 11.

3137 " rosea N sp! " same locality & date.

3138 Eritrichium Near Calico May 11

3139 Amsinckia verrucosa var. Near Calico May 11.

3140 Oryctes ? same place & date.

3141 Mimulus Mohavensis N. sp! Near Waterman's May 10 " Calico " 11.

3142 Allium. Gr. Cañon. 3143 Hemerocallis. Ft Mohave. Ap 2-12.

3144 Zigadenus. Near Calico Mohave val. May 10.

Flagstaff, Ariz. July 15, '84

My dear Dr. Gray,

I wrote you a hurried note from town yesterday, and included a few brief notes concerning the plants sent you in the large package May 13.

As I look over late letters I see how much you need certain items inquired for if you have failed to get my first note so I hasten to supply a few. They may reach you in time since none of our things are yet published.

I will only take up a few of the plants about which you have inquired.

No. 3116. Astragalus Mohavensis n. sp. Gray Grows in large depressed masses in a cañon south of Newberry Spring in Mohave val. May 10th '84.

3117 Astragalus acutirostris Wats Gray n. sp. Above the Calico mines in dry rocks. May 11, '84
This is the one I inquired about doubting that it could be Nuttallianus.

3119. & 4146. Singular that I have never heard of these two Psoraleas, castorea & mephitica. In what are they published?

3120 Dalea — ? A very large limbed shrub but low, 2-3 ft. Above Waterman's mill, Mohave val. May 11, '84.

Please tell Mr Watson that I collected No. 4152 Oxybaphus ? at several times morning and evening but never found the minute flo. open. Could not revisit the locality. Don't think it can be any form of O. nyctagineus.

2

3125 Œnothera. It puzzles me to call this annual plant growing on the sand at the side of the Grand cañon, "*Œ. albicaulis*", when in Bot. Cal. that species is described "stems herbaceous from a perennial running root-stock," a character which I've noticed abundantly in Cal.

Please examine this specimen again.

Grand cañon ~~Apr~~ May 27, '84.

(This one has loose bark, while the capsule *is* broader at base than in *Œ. albicaulis* &c.)

1

Plants from northern Arizona and New Mexico including the Great Plateau of the South West, between the two rivers, Colorado & Rio Grande, and crossed by the Atlantic and Pacific R. R. on the parallel of 35° N. Lat.

Mostly from the great pine forest around the San Francisco Mts. Collected by Mr. & Mrs. J. G. Lemmon April & Oct. 1884.

3200 Ivesia pinnatifida n. sp. n. sp.! Prairie [illegible] near Flagstaff [illegible] in meadows, flo. [illegible]

3201 Aster adscendens, Lindl. [illegible] Locality [illegible], always small, [illegible].

3202 Ivesia Lemmoni n. sp. Oak Creek near Flagstaff on [illegible] rocks. Aug.

3203 Eriogonum Calif. var. [illegible] on [illegible] granite. "

3204 ~~Sisyrinchium~~ ciliatum ~~[illegible]~~ n. sp.! Oak creek, in meadows [illegible] Sept. [illegible]

3205 Abronia nana, near Peach Spring [illegible]

3206 Astragalus [illegible], Gray " "

3207 Solidago multifoliosa, var. San Fran. Mts. " Aug.

3208 Cedronella micrantha, Gray near Peach Spring " [illegible]

3209 Aphyllon? parviflorum Side of Bill Williams Mt. " Aug.

3210 Erigeron macranthus, Nutt. " "

3211 Echinospermum floribundum, [illegible] " "

3212 Sophora sericea, Nutt. ~~[illegible]~~? { Oak Creek [illegible] Flagstaff [illegible] [illegible] lake [illegible] [illegible].

3213 Solidago nemoralis, var. [illegible] near Flagstaff [illegible] Aug.

3214 Stachys Rothrockii, Gray Shores of [illegible] lake. "

2

3215 Pentstemon Bridgesii, Gr. Bill Williams Mt. 8,000 ft. Aug

3216 Antennaria Richardsonii near town of Williams Ariz. "

3217 Allium mutabile, Mx. near [illegible] [illegible], 1884. La Vergne park. " "

3218 Calamintha? [illegible], [illegible] " " "

3219 Allium [illegible] Oak creek near Flagstaff. " "

3220 [illegible] linearis, [illegible] La Vergne park. " "

3221 Astragalus fallax, Watson " "

3222 Eriogonum [illegible] " " "

3223 Pentstemon linarioides, Gr. " " "

3224 Polygonum ramosissimum, Mx. " "

3225 ~~Astragalus proximus~~, — [illegible] ~~[illegible]~~ Near Cliff dwellers ravine " "

3226 Hieracium Fendleri, Gray La Vergne park. " "

3227 Pentstemon multiflorus, [illegible] " "

3228 [illegible] [illegible], var. ([illegible], [illegible]) [illegible] [illegible] spring " "

3229 [illegible], var.? [illegible] 384 ([illegible]) [illegible] [illegible] spring, [illegible] co. Cal. [illegible]

3230 Chrysopsis villosa, var. canescens [illegible] village of [illegible] [illegible], [illegible]

3231 Vitis riparia, [illegible], [illegible] "

3232 Astragalus ~~[illegible]~~, [illegible] ~~([illegible])~~ " on hills " "

3233 " ~~[illegible]~~ ([illegible]?) " " " "

3234 Valeriana arizonica, Gray ~~[illegible]~~ Bill Williams Mt. Ariz. Aug

3235 [illegible] [illegible], Gray [illegible] spring, Mohave co. Cal. Aug

3236 Eriogonum [illegible], Torr. [illegible] " Ariz. [illegible]

3238 " Thomasii, Torr. " " "

3.

[illegible] Arizona, 18[illegible].

3739 Cymopterus near [illegible] Spring, [illegible] Ar. [illegible]

3740 Oxybaphus angustifolius, var. [illegible] Peach Spring Ariz. June

3741 Eritrichium " " "

3742 Fraxinus pistaciaefolia (? [illegible]) " 6–10 ft high " "

3743 [illegible] [illegible]! " on hills " "

3744 Phacelia invenusta, Gray – n.sp. " " " "

3745 Lycium pallidum, Miers low, full flowered " " " "

3746 ~~[illegible]~~ Polypodium [illegible] " "

3747 ~~Dracocephalum parviflorum~~ [illegible] near [illegible] Flagstaff " Aug.

3748 Amsonia Palmeri, Gray near Truxton Spring " June.

3749 Peucedanum Nevadense, Wats.? ~~[illegible]~~ near Peach Spring " "

3750 Oxybaphus nyctagineus, var. pilosus, Gray " "

3751 =3360 Actinella acaulis ~~[illegible]~~ " " "

3752 ([illegible],) [illegible] Indian village of [illegible]. [illegible]
Selinocarpus diffusus, Gray
Mex., on hills, very curious. July.

3753 ~~Asclepias~~ involucrata, [illegible] [illegible] locality & date, ?

3754 Eriogonum ~~[illegible]~~, Engelm. "

3755 Sida lepidota Gray near [illegible]. Ariz. July.

3756 Senecio Douglasii " " "

3757 Pentstemon cristatus " McCarty's station N. Mex., "

3758 Actinella Richardsonii ([illegible]) San Francisco Mts, 8,000 ft " Aug.

3760 ~~Actinella scaposa~~, v. linearis ~~[illegible]~~ near [illegible] N. Mex., July.

3761 Hymenopappus filifolius " " "

3762 Astragalus [illegible], n.sp. near [illegible] Ariz. "

7.

Toluccanus, v. microdontus
3264 Senecio San Francisco Mts, Ariz. Jul.

multilobatus, 249, Peach Spring
3265 " " Jun.

3263½ " var? San Fran. Mts, " Aug.

3265 (Senecio [illegible], Greene " "

affinis, var. [illegible]
3266 Ranunculus, De La Vergne Park, " "

aquatica
3267 Limosella in meadows, " " " "

[illegible] & shorter beaks
3268 Myosurus [illegible] " " " " "

aristatus!
3269 " " " " " "

3270 Mimulus floribundus? " " " "

Stephanomeria [illegible], Gray
3271 ~~[illegible]~~ De La Vergne Park, " " "

Helianthella quinquenervis, var. Arizonica
3272 ~~[illegible]~~ Cliff-dwellers ruins, near Flagstaff " "

[illegible], Gray
3274 [illegible] near Flagstaff (good forage) " " "

Arizonicum
3275 [illegible] Bill Williams Mt. " "

[illegible]
3276 [illegible] Near Cliff-dwellers ruins " "

3277 Hypopitys " Flagstaff " "

3278 Astragalus Rusbyi Greene! in Proc. Cal. Acad. Feb. 84.
Hills around San. Fran. Mts. Ariz. Aug.

3279 Potentilla Hippiana De La Vergne Park. " " "

[illegible]
3280 [illegible] Wheeleri " " " "

[illegible]
3281 " undescribed & very distinct " " " "

[illegible]
3282 ~~[illegible]~~ N. side Mt. Agassiz " Aug.
var. [illegible]

3283 [illegible] fastigiatus " " " "

pusillus
3284 Potamogeton In a crater Lake north of Mt Agassiz "

3285 Nitella " " "

5

3286 Sisymbrium [illegible] crater Lake. north of Mt. Agassiz. Aug.

umbellata, Turcz.
3287 Stellaria [illegible] N. slope Mt. Agassiz 11,000 ft. "

3288 Cerastium alpinum, L., var. " " "

3289 Arenaria biflora, Watson, [illegible] " 12,000 "

3290 Silene acaulis, L. " 11,640 "

Saxifraga flagellaris, Willd.
3291 " " 12,[illegible] "

3293. Draba aurea, Vahl - var. glabrous - same as n. 20, 1000, from Mt. [illegible]
3294 Potentilla Wheeleri ! N. slope " [illegible],000 "

Saxifraga caespitosa, L.
3295 [illegible] Summit " [illegible] "

3296 Arenaria verna, L., var. hirta " " 12,[illegible] "

Lychnis Drummondii, Watson
3297 N. slope " [illegible] "

[illegible] alpestre, L.
3298 ~~[illegible]~~ " 12,[illegible] "

Saxifraga debilis, Engelm.
3299 ~~[illegible]~~ N. slope " 11,500 "

[illegible], Watson
3300 [illegible] [illegible] [illegible] Aug. [illegible]

3301 [illegible] [illegible], Watson " "

[illegible], Watson
3302 Allium [illegible] Peach Spring " "

3303 [illegible] " " "

(A few species of Gramineae follow omitted from package sent last week to Dr. Gray.)

3304 Poa annua [illegible] Peach Spring Aug. [illegible]

3305 [illegible] L., N. side Mt. Agassiz " Aug.

3306 [illegible] spicata " " " "

3307 [illegible] " " " "

Arenaria macradenia, Watson
3307 ~~Stellaria~~ S. slope Mt. Agassiz, Ariz. Aug.
3310 | Actinella biennis (Comp.) Peach Spring cañon " June
3311 | Callitriche verna Spring val. Mt. Sitgreaves " Sep.
3312 | Potentilla crinita, Gray La Vergne park, San Fran. Mts. " "
3313 | Elatine brachysperma, Gray Sandy bank of stream. Spring val. near Sitgreaves
3314 | (Tillaea angustifolia, Nutt. near San Francisco Mts. Sep. Same place and time)
3315 | Aplopappus gracilis Volunteer val. 7000 ft alt. Ariz. Sep.
3316 | Chrysopsis villosa, v. hispida " " " "
3317 | Verbena near Mt. Volunteer " Sep.
3318 | Bahia [illegible] (Comp.) La Vergne park, S. F. Mts. " Sep.
3319 | Solidago nana, Nutt (small) " " "
3320 | Polygonum ~~ramosissimum~~, Mx " "
3321 | Phacelia arizonica, Gray near Davenport [illegible] " "
3322 | Astragalus [illegible] " " Peach Spring " "
3323 | Brickellia longifolia [illegible], Colorado val. Cal. Aug.
3324 | Aquilegia La Vergne park Ariz. Sep.
3325 | Eriogonum inflatum, Torr. [illegible] cañon " "
3326 | Astragalus (?) [illegible], [illegible] " [illegible]
[illegible] A. [illegible] [illegible] for [illegible]
[illegible] [illegible], [illegible] 5,000 ft.
[illegible] [illegible] [illegible]
3327 | Astragalus mollissimus, Gray Peach Spring [illegible] Ariz. June
3328 | Pentstemon Parryi " " "
3329 | Astragalus [illegible] (not [illegible])
3330 | Pentstemon [illegible] La Vergne park, " Aug.
Talinum brachypodum, S.W.
3331 | [illegible]

A.

3327 Asclepias Near Laguna N. Mex. Jul.

3331 Oenothera hispida, Ash Fork, Ariz. "

3333 (?) A vine several feet long climbing by petioles over bushes & fences near Indian villages of [illegible], not in flower in June.

3334 Arenaria Fendleri, Gray De la Vergne park, Ariz. Sep.

3335 Lupinus Sitgreavesii, Watson S. slope Mt Agassiz 11,000 ft. Aug. very large & spreading, good forage.

3336 Chamaesaracha Coronopus Peach Spring canon Ariz June.

3337 ~~[illegible]~~ (Gray) S. slope Mt Agassiz, " Aug.

3338 Phacelia crenulata, Torr. Plains east of " in scoria " "

3339 Eriogonum corymbosum, Wats. widely branched bush 2 feet high on top of Cave-dwellers peak, east of Mt Agassiz, Aug.

3340 Lychnis Drummondii, Watson ~~[illegible]~~ N. side Mt Agassiz, Ariz. "

3341 ~~[illegible]~~ " (range here?) " "

3342 Psoralea lanceolata, var. ~~[illegible]~~ Plains east of Mt Agassiz " "

3343 Astragalus [illegible], Gray " " "

3344 (?) " " "

3345 Phacelia integrifolia, Torr. 2 feet high, and widely branching,

3346 Nasturtium sinuatum [illegible] McCarty's station A. & P. R.R. N. Mex. Sep. ([illegible]) Near Flagstaff. Ariz.

3347 Brodiaea [illegible] n. sp. Oak creek near Flagstaff " Aug

3348 Erigeron [illegible] var. n. sp.? Ash Fork, " June.

3349 Phacelia hispida, Gray (n. sp.?) Mineral Park, [illegible] " Jul.

3350 " rotundifolia " on plains " "

3351 [illegible], Gray ~~[illegible]~~ [illegible] " " "

3352 [illegible] [illegible] " June

3353 " Calycerum, Torr.? " " "

8

3353 | Psilactis Coulteri, Gray ~~[illegible]~~ Ash Fork Ariz. July.

3354 | ~~Astragalus~~ Shortianus, Nutt. Cerbat Mts. " "

3355 | Thalictrum dioica [illegible] Ash Fork. " "

3355½ | " Mt. Williams " Aug.

3356 Agave Utahensis Engel. (not in fl.) Peach Spring Cañon & Grand Cañon of the Colorado.

3358 | Asclepias nyctaginifolia Beale's Spring near Kingman Ariz. June

3359 | Physalis Wrightii, Gray (?) Side of [illegible] Mt. in [illegible] east of Mt. Agassiz, [illegible] Aug. [illegible] seed [illegible]!

3360 =3211 | Actinella acaulis (Comp.) San Fran. peak, 8.000 feet. Aug.

Here Dr. Gray & Prof. Watson are the numbers and notes of 150 plants, in 2 packages, forwarded for names to day (Nov. 13th 84.)

Perhaps I could study out a large part of them if time permitted but we have agreed to make an exhibit of Pacific Coast Conifers & other plants at the N. O. fair and are very busy selecting, mounting & labeling.

Please send the determinations to our home (1905 (Oakland,) and the letter will follow.

Mrs. busy finishing up field sketches for the fair, she joins in warmest regards to both.

Hurriedly but cordially J.G. Lemmon

Plants sent to Prof. Watson Ap. 12. '84
(Collection of 1884 mostly.)

4169. Streptanthus — Peach Spring. June '84
Is this the true S. cordatus?!

4170 " [illegible] not [illegible] the [illegible] white [illegible]

4171 " Near Peach Spring [illegible] '84
(cont. are not [illegible]) [illegible]

4172 Stanleya. Fragments of a large plant coll. in N. E. Cal. [illegible]

4173 [illegible] [illegible] [illegible] '84. Of the [illegible] [illegible] [illegible] [illegible] constant.

4174 (Œnothera primiveris, Gr. Peach Spring, June '84.

4175 Calochortus Kennedyi. " " " Is this same sp. often in Mohave desert, and on the high foot-hills of Santa Catalina, and of Bill Williams, is of a very constant form.

4176 Œnothera trachycarpa Bill Williams Mt., Aug '84. Fruit white. New (?) trachycarpa, [illegible]

4177 Petalostemon candidus v. oligophyllus Gr. Peach Spring, June '84

4178 Ribes cereum Dougl. Near [illegible], on [illegible] '84

4179 " —? Bill Williams Mt. June '84
aff. R. Menziesii 4–6 ft. [illegible], [illegible]

4180 } Trifolium longipes Nutt. Foot-hills of [illegible]

4181 } " [illegible] ~~[illegible]~~ near Flagstaff, Ar. '84

1 B. [illegible]

4182 } " involucratum, [illegible] [illegible] '84

4183 } ~~[illegible]~~ Trifolium, [illegible] near [illegible], Ar. '84

4184 Arabis [illegible]

4186 [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

4185 [illegible] [illegible] '84

4187 Vesicaria } V. alpina, Nutt.? Peach Spring. [illegible] '84

4188 " } Mountain view Station, near Williams, June '84

4189 [illegible] ~~[illegible]~~ [illegible] 3325 [illegible]

[illegible]

[illegible]

[illegible] distinct [illegible]

[illegible]

[illegible]

4190 Eriogonum [illegible] Near [illegible] [illegible] '84

4191 " [illegible] " Kingman, N. Ariz., June, '84

4192 " [illegible] Flagstaff, N. Ariz., Aug. '84.

multiglandulosa, var. sparsa

fimbriatum

arnicoides, var. with large head

us Douglasii ?

Chamissonis

bullata

i Coos linearifolia

venustus, var.

Caulanthus Lemmoni n. sp.

vestita

canescens 2

" nothofulvus

Nov? heterophylla, var. Cryptopetala

glandulosa

ic Douglasii

ic Lindleyi.

icv Bigelovii, var.

Bigelovii, var.

elegans

var. Coulteri

~~Lindleyi~~
~~Douglasii~~

Douglasii

"

= P. alsinoides Greene

3

Platystigma lineare

var

Stypsum calycinum

tenuis

glandulosa

Califa.

Bottæ

var. sparsiflora

Jonesii, Gray

Douglasii

4

occidentalis, var.

arachnoides

lycopsoides

aphantocarpha, var. tenella

Fremonti

~~Senecio~~ Malacothrix Clevelandi

Luisana, n. sp.

——

hispidissima = 4606

——

caespitosa

foliosus, var. tenuissimus

!

5

45 82 Brodiaea terrestris Near L. ranch Jne. '87

83 Eschscholtzia On the dry adobe lakes of our ranch. " "

84 Eriogonum citharaeforme { At Baron Schroeder's ranch 30 miles north of S. L. O. on dry hills. Very peculiar in the expanded end of its leaf. If this is E. virgatum I have not met with it before.

85 Senecio eurycephalus ~~multilobatus, early~~: Lemmon ranch. Jne '87.
If as above shows a far western locality.

86 Microseris Douglasii ~~Ca. sp.~~ pappus too young & tall. Lemmon ranch " "

87 Godetia viminea { On our ranch. I cannot make the Godetias fit nicely into the descriptions you assign in Bot. Cal. This form is a low spreading dark red one.

88 Monardella Breweri { Near M. lanceolata but bracts not cross-veined nor calices not hirsute within; On sandy plains near L. ranch. Jne. '87

89 ~~[illegible]~~ [illegible] heterophylla var. hymenophylla Cholame S. L. O. Co. " "

45 90 Hollisteria { Forms of Hollisteria Abundant in Cholame val. & especially on the hills enclosing it. No doubt a good genus with its peculiar two lobed involucre. Flowers a long time, from May to Oct.

91 Microseris Douglasii On the hills of Cholame. Jne. '87
Perhaps depauperate M. Douglasii

92 Phacelia brachyloba
~~Amsinckia tessellata~~? L. ranch Cholame. " "

93 Amsinckia ~~spectabilis~~ ~~tessellata~~ Lemmon " " " "
tessellata — large flowered

94 Sisymbrium reflexum. " " " "

95 Phacelia ciliata! Hill sides " " " "
Scarcely ciliate. becomes 1–2 ft high.

96 Chorizanthe perfoliata Near Cholame. Jne. '87

97 Chorizanthe Californica " " "

98 Chorizanthe pungens. Sea shore at Pacific Grove Monterey Co.
Jne '87

4565 Calamintha mimuloides, Lopez cañon near S.L.O. Jne 87

66 Allium —? near L. ranch. Jne. '87

67 Godetia viminea " " "

68 Lessingia glandulifera, var. graveolens N. Sp. On the Lemmon ranch " "
very heavy scented, Inner bracts purple-tipped &c,

69 Eschscholtzia Near S.L.O. on the hills, Jne '86

4570 (Phacelia Douglasii ~~probably~~ = 4544.) Near L. ranch, " "

71 Phacelia distans, Bth " " " "

72 Thelypodium Lemmoni, Greene, in "West-Coast Scientist" of Aug. '87.
On adobe hills of our ranch; from a few inches to 5 ft. high.

73 Lupinus nanus L. ranch Jne. '87

74 Microseris ~~"linearifolia~~ Lindleyi. "

75 Lupinus micrócarpus! " "

76 Microseris Douglasii with globular pds. " "
On adobe hills of Lemmon ranch. "

77 Calochortus Obispoensis Several forms, On Bishop peak
and others hills about the town of S.L.O.
Prof. Greene criticises my name but I hold that it is appropriate as growing from Bishop peak — as well as the other places.

78 Calochortus clavatus On hills near S.L.O. Jne '86
very striking in situ. Fades in drying.

79 Helianthus annuus on dry adobe lakes of L. ranch Jne '87
Often 6-8 ft high. and very leafy.

4580 Godetia tenella Near S.L.O. on hills Jne. '86

81 Malvastrum Hills of Lemmon ranch. " '87
exilis, var. Near M. rotundifolium but fls. not globular but campanulate.

7

4599 Chorizanthe diffusa San Luis Obispo Co June '87

4600 Chorizanthe Palmeri " "

1 Chorizanthe staticoides

2 } Plagiobothrys canescens Cholame val. " "

3 } " " " " "

4 " tenellus, Gray " " "

5 " canescens " " "

6 "Cryptantha hispidissima" Greene, in Pittonia No 3. Lo ranch. " "

7 Hemizonia fasciculata ~~perhaps too young. on our ranch. May '87~~ On our ranch. May '87

8 ~~Microseris~~ Troximon = 4549? Too young. On our ranch. May '87

9 Phacelia circin., var Near Cholame. June '87

~~10~~

10 ~~Malacothrix~~ Troximon grandiflorum "

4611 Layia glandulosa — very near heterotricha "

12 Dicentra Near Cholame Seems different from D. chrysantha. "

13 Krynitzkia Torreyana Near Cholame June '87

14 Stachys ajugoides Estrella creek. near Cholame. "

15 Godetia Bottae Near San Luis Obispo "

8

4616	Phacelia distans	Near San Luis Obispo.	Jne '87
17	" tanacetifolia	"	"
18	Breweria convolv. 5-petaloides.	On dry adobe lakes. Cholame.	"
19	Lupinus Chamissonis	Cholame.	"
4620	Chorizanthe membranacea.	Our ranch.	"
21	Pentstemon heterophyllus	Near Paso de Robles. Cal.	"
22	Monardella undulata!	Arroyo Grande "	"
23	Calochortus splendens	Hill back of Paso Robles.	"
24	" venustus	" "	"
25	" venusta var.	" "	"
26	" "	" " "	"
27	Rigiopappus leptocladus var. longiaristatus	Near Cholame.	"

There, I have been so hurried about this package that several duplications have occurred and moreover I had not room to place the plants out and classify them, hence all the orders in confusion.

We start this P. M. for San Diego to make arrangements for exploring the peninsula of Lower Cal for a year or so, as an offer is before us.

Please write always to Medical College, Oakland. for this is our permanent address.